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1998 - 2007

1998 – 2007 CAPITAL BUDGET BUSINESS PLAN

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GOVERNMENT DOCUMENTS



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REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH 1998 - 2007 CAPITAL BUDGET

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CAPITAL BUDGET RECOMMENDATIONS

1. That the 1998 Capital Spending in the amount of \$141.779 million, identified in Appendix D-1, be approved;
2. That the 1998 Net Financing Expenditures in the amount of \$54.735 million, identified in Appendix D-2, be approved;
3. That the Region be directed to explore all alternative methods of financing (including private structured financing options and public/private partnership arrangements) and best practices other than traditional debenture financing;
4. That in light of health services restructuring, the remaining proceeds of the Hospital Grant debenture, in the amount of \$7.5 million (originally earmarked for St. Peter's and Chedoke McMaster hospitals), be utilized to finance the shortfalls in the Macassa Lodge COIW project, with any surplus to be credited to the Unallocated Capital Levy Reserve; and
5. That the Regional share of approximately \$5 million for the Dundas Sewage Treatment Plant Capacity Expansion, be accommodated in the Environment Department Budget for 1999.

1998 -2007 CAPITAL BUDGET BUSINESS PLAN

EXECUTIVE SUMMARY:

Approval of the Capital Budget in 1997 launched the Region in a new strategic direction. Previously, much of the capital funding for maintenance, rehabilitation and replacement of existing infrastructure was redirected to large capital projects such as the Freeway and Homes for the Aged. Redirecting funds in this manner was necessary because the scope of the capital program had continued to increase without a commensurate increase in funding; however, it had a detrimental impact on the Region's existing infrastructure. In 1997, this issue was addressed by segmenting the capital budget into two spending envelopes, one for existing infrastructure, the second for capital expansion projects.

The following table identifies the amount by which the general levy and water & sewer rates have to increase to pay for the proposed increase in capital costs in the 1998-2007 Capital Budget (the loss of capital subsidy for HSR Transit and DARTS, creating an additional impact of \$5.5 million, will be dealt with as part of the final downloading impact analysis). The financing expenditures are divided into the two spending envelopes for existing infrastructure and capital expansion.

Capital Financing Expenditures (\$millions)

Program	1998	1999	2000
<u>General Levy:</u>			
Existing Infrastructure	\$2.1	\$1.8	\$1.5
Capital Expansion	<u>0.4</u>	<u>2.2</u>	<u>2.4</u>
Subtotal	\$2.5	\$4.0	\$3.9
<u>Utility:</u>			
Existing Infrastructure	\$1.4	\$2.8	\$3.2
Capital Expansion	<u>0.0</u>	<u>0.8</u>	<u>1.0</u>
Subtotal	\$1.4	\$3.6	\$4.2
<u>Total</u>			
Existing Infrastructure	\$3.5	\$4.6	\$4.7
Capital Expansion	<u>0.4</u>	<u>3.0</u>	<u>3.4</u>
Total	\$3.9	\$7.6	\$8.1

Existing Infrastructure

Annual incremental increases to the Roads, Water, Storm and Sanitary Sewer Programs for maintenance, rehabilitation and replacement, were initiated by Council last year as part of a systematic plan to build the funding levels for existing infrastructure to sustainable levels. This report supports the continuation of this plan in order to protect the Region's infrastructure.

Capital Expansion Projects

The difficult decisions to be made with respect to the Capital Budget relate to the spending envelope for capital expansion projects because project merits must be balanced with the related debt implications. Expansion projects require significant capital expenditures - the new capital expansion projects commencing in 1998, will require an increase in the operating budgets in the amount of \$ 3.0 million in 1999, and a further \$ 3.4 million in the year 2000. These expenditures are detailed on pages 13 & 14 of this report.

The benefits derived from the individual capital expansion projects are as varied as the implications of not proceeding with them. This report itemizes both the costs and the financing for each project and provides a related status report for same. It is recommended that approval of these projects be given; however, in order to control the level of debt that these projects generates, consideration to delaying or eliminating some of the projects may be in order.

Key Decisions Required:

	Recommendations	Options
Existing Infrastructure	Approve proposed annual increases in the Roads, Water, Sanitary and Storm Sewer programs.	<ul style="list-style-type: none">• Change the level of increases.• Eliminate annual increases.• Re-prioritize projects.• Eliminate specific projects: see Project Ranking Listing, Appendix "C".
Capital Expansion	Approve proposed expenditures for projects commencing in 1998: <ol style="list-style-type: none">1. Red Hill Creek N/S Section2. Macassa Lodge Final Phase3. Remediate Landfill Sites4. Financial Information System5. Human Resource Info. System6. Downtown Initiatives	<ul style="list-style-type: none">• Defer projects.• Re-prioritize projects.• Eliminate projects <p>Details of gross expenditures and financing costs for capital expansion projects listed in Tables One & Two (pg. 11-14).</p>

Note: The elimination of projects which commence in 1998 will not achieve savings in 1998. It will however, impact future financing costs, commencing in 1999.

BACKGROUND:

The business plan developed in 1997 recommended the separation of capital expenditures into two envelopes; the first for Existing Infrastructure, the second for Capital Expansion. This measure was taken to address the growing gap between the requirements and the funding for existing infrastructure resulting from an expanded capital program, reductions in non-regional funding and a constant level of Regional funding. In adopting this approach, it was acknowledged that deferral of the maintenance issue would result in increasing failures of infrastructure that would impact the quality of life of residents.

A long-term financial plan was established in 1997 in order to protect the Region's infrastructure by systematically building the funding for annual maintenance, rehabilitation and replacement.

For 1998, the approach to the Capital Budget, reflects the business plan approved in 1997. This report provides an update on the plan to rebuild the infrastructure funding. With respect to capital expansion, an appendix for each proposed project is provided with project costs and financing implications so that the effect of deferrals or the elimination of any capital expansion projects is readily apparent.

Other issues regarding the Dundas Sewage Treatment Plant and servicing for Binbrook are identified in this report. Costs associated with these projects are not included in the proposed Capital Budget for 1998-2007.

Initiatives Reflected in the Capital Budget Financing Plans:

- Net savings of \$1 million from delayed spending in 1997;
- Sinking fund principal reduction of \$400,000 for levy programs and \$250,000 for utility programs;
- Capitalization policy – \$2.2 million of administrative costs no longer capitalized; and
- Forgiveness of internal debt – annual payments of \$2.8 million (principal \$20.5 million), this reduction was used to reduce tax levy for financing costs by a further \$600,000 and to offset the impact of changes to the capitalization policy (\$2.2 million).

EXISTING INFRASTRUCTURE

The following table identifies the annual financing increases necessary to support the proposed level of expenditures for the Region's existing infrastructure:

Financing Expenditures for Existing Infrastructure (\$millions)

Program	1998	1999	2000
<u>General Levy</u>			
Roads	\$1.7	\$1.1	\$1.3
Storm Sewer*	0.7	0.5	0.5
HSR/DARTS	(0.1)	0.2	0.1
Other (incl. Boards & Agencies)	<u>(0.2)</u>	<u>0.0</u>	<u>(0.4)</u>
Subtotal:	\$2.1	\$1.8	\$1.5
<u>Utility</u>			
Waterworks	\$0.6	\$1.7	\$1.8
Sanitary Sewers*	<u>0.8</u>	<u>1.1</u>	<u>1.4</u>
Subtotal:	\$1.4	\$2.8	\$3.2
Total	\$3.5	\$4.6	\$4.7

*Pay-as-you-go program – no internal debt

The 1997 Capital Budget Business Plan recognized the existing infrastructure spending envelope as the highest priority for the capital budget. There was, and remains, an urgent need to rebuild the funding level for infrastructure to a sustainable level. The 1997 Council approval of annual increases to the Roads, Water, Storm and Sanitary Sewer capital budgets for maintenance, rehabilitation and replacement, set the course for moving to a sustainable funding level for the existing infrastructure.

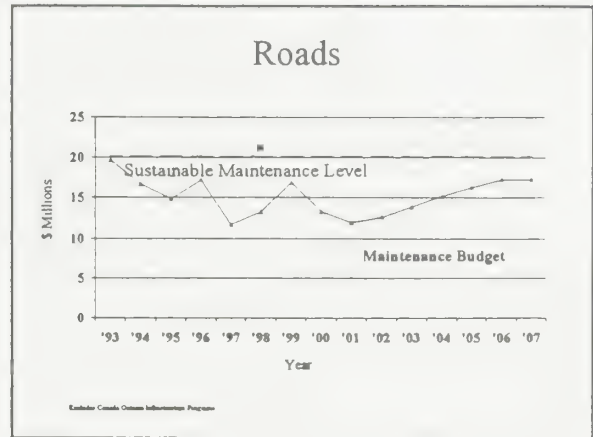
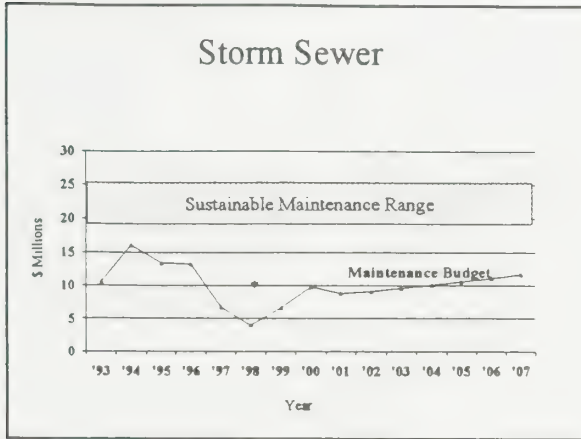
Maintenance Issues:

The state of repair of a community's infrastructure is an indicator of local health, vitality and sound management. The graphs on the following page depict the actual (and budgeted) versus sustainable level of spending for maintenance in each of the Water, Sanitary & Storm Sewers and Roads Programs.

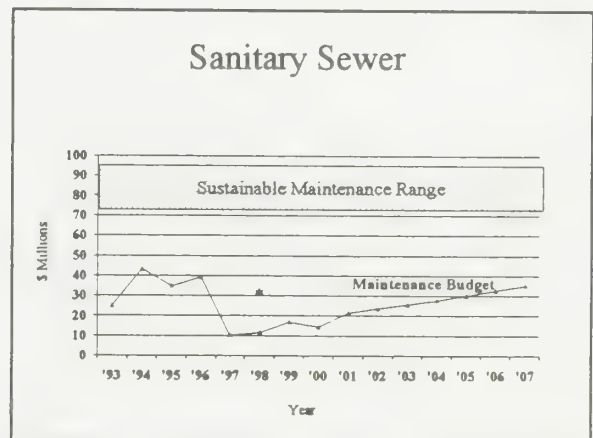
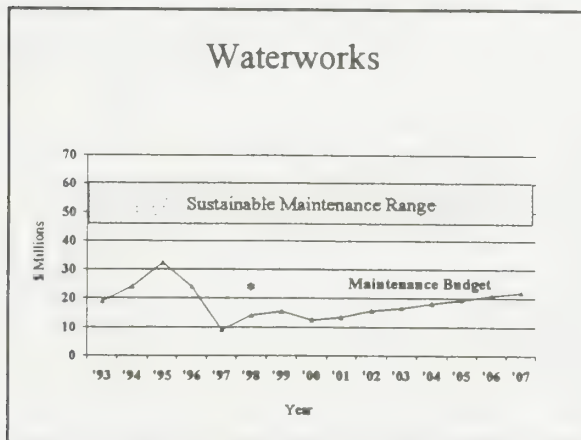
The sustainable maintenance levels identified in the graphs were established based on estimates from various expert sources. For water and sewer ranges, the generally accepted industry recommendation is to spend approximately 2-3% of the value of an asset in order to maintain it adequately. A life cycle assessment was also completed which produced approximately the same results. With respect to roads, Ministry of Transportation guidelines were used as one source, a life cycle assessment was completed, as well as an estimate from the Region's pavement management system. Each of these estimates produced approximately the same level of expenditure requirement.

Spending on Existing Infrastructure

General Levy Programs:



Utility Programs:



* 1998 level, adjusted for carryforwards.

Implications of Maintenance Deferrals:

Postponement of maintenance for infrastructure serves to aggravate existing problems. The repair and replacement of infrastructure is 5-6 times more costly than if an investment is made in annual maintenance, rehabilitation, and replacement. Recognizing the need to address this issue, Regional Council approved annual contributions to increase the funding of existing infrastructure to sustainable levels, commencing in 1997 and 1998. These increases, over a 20-year period, serve as an investment in the future for Hamilton-Wentworth.

Variance Analysis: Infrastructure Program

1997 Budget vs. Actual Spending

Infrastructure Program	1997 Budget	Expended In 1997	Committed In 1997	Total Committed & Expended	Variance	% Committed & Expended
Waterworks	\$ 19.8	\$8.8	\$ 4.8	\$13.6	\$6.2	68.7%
Sanitary Sewers	30.1	10.3	9.7	20.0	10.1	66.4%
Storm Sewers	13.2	6.7	3.1	9.8	3.4	74.2%
Roads	19.5	11.6	2.8	14.4	5.1	73.8%
Total	\$ 82.6	\$ 37.4	\$ 20.4	\$57.8	\$24.8	70.0%

In 1997, 70% of budgeted capital expenditures were spent or committed for infrastructure related work in the Water, Sanitary Sewer, Storm Sewer and Roads Programs. The specific accomplishments by Program are shown in the above table. The variance between the budget and actual spending (including committed) in 1997 is comprised of:

\$ 1.9 m	Contract Savings for Completed Projects
<u>22.9 m</u>	Delayed Projects
\$ 24.8 m	Total Variance between Budget and Actual Spending

Delays in projects are at times inevitable, and are often a result of uncontrollable factors. In 1997 the project delays of \$22.9 million are attributable to the following factors:

- pending environmental assessment approvals;
- efforts directed to completing COIW approved projects (a second COIW program was added with a March 31, 1998 deadline for completion);
- introduction of the City's Restore the Core Program;
- coordination of works with other departments and other municipalities; and
- deletion of all Local Improvement projects as they were all "petitioned against".

Unspent funds in a given year are carried forward to the next year's budget for spending, so that programs are not negatively impacted by delays, such as those noted above.

The Plan for Existing Infrastructure

The proposed levels of spending for the infrastructure program are detailed in Appendix D-1: Summary of Gross Expenditures By Program.

The following table identifies the annual increases in financing costs, planned over specified terms, in order to achieve sustainable levels of maintenance in the Water, Roads, Sanitary and Storm Sewer Programs (the graphs on Page 6 of this report reflect these budgeted increases).

Program	Estimated Sustainable Level Of Expenditures	Term	Annual Impact (000's)	\$ Per Household
(1) Water	\$45 million	20 years	450	\$ 2.00
(1) Sewer	\$72 million	20 years	765	\$ 4.00
(2) Storm	\$20 million	19 years	285	\$ 1.00
(2) Roads	\$20 million	19 years	125	\$ 0.30

(1) commenced in 1997

(2) commence in 1998

Recommended Strategy for Existing Infrastructure

It is recommended that the Region maintain its plan to build the level of funding for maintenance projects. The proposed annual increases to the Roads, Water, Sanitary and Storm budgets reflect the long-term plan to reach a sustainable level of funding for the infrastructure. Council's decision to commit to a long-term financial plan to protect the Region's infrastructure was an important turning point for the future health of the region. Commitment to this plan is as vital as ever.

As in 1997, there may be factors in the future which impede the Region's ability to achieve planned expenditures in accordance with capital budget. Nevertheless, it is recommended that the Region adhere to the planned increases for the existing infrastructure, so that the objective of reaching sustainable maintenance levels can be reached.

Alternatives:

If reductions to the maintenance portion of the Capital Budget cannot be avoided, it is recommended that reference be made to the ranking of all capital budget projects, prepared by the Development Coordinating Committee (DCC) as part of its Capital Budget Review Process. The DCC is a staff committee comprised of senior departmental administrators from the Environment Department, Transportation Department Legal Services, Health, Economic Development, and Financial Services. Projects were ranked by the DCC on a corporate, rather than departmental basis. The ranking model took into account factors such as Ministry obligation, contract, hazard, urgency, outside funding, economic attractiveness and Vision 2020. The project rankings are listed in Appendix C of this report (page 30).

CAPITAL EXPANSION PROJECTS

The proposed capital expansion projects and the corresponding financing costs are listed in the tables on pages 11-14; the tables are divided into two sections, being “approved” and “new” projects. Financing costs included on Table Two show the year to year increases required from the tax levy, if the proposed projects are approved.

Approved Projects:

The “approved projects” listed in Tables One and Two have been previously approved by Council for which the Region is obligated to pay the associated financing costs. No decisions are required in respect of the “approved” projects. These projects are identified in this report to illustrate the cumulative impact of the net financing costs for the capital expansion projects.

New Projects:

Gross expenditures and related financing costs for “new” capital expansion projects are highlighted in Tables One and Two, attached. These projects represent substantial capital outlays – if approved, the Region is committed to the related capital financing costs. It should be noted that the elimination of any of the “new” projects will not impact the 1998 Current Budget. However, these projects must be scrutinized for elimination or deferral if savings in future net financing costs are to be achieved.

Appendix A provides a synopsis of each of the capital expansion projects including timeframes for completion, total project costs, and implications of not proceeding with these projects.

Implications of Capital Expansion:

The magnitude of the costs for the proposed capital expansion projects is readily evident in the tables on pages 11-14. Currently, there are insufficient internal capital reserves to finance the proposed expansion projects. If approved, these projects will require external debenture financing and burden regional property taxes and user fees due to increased debt charges. The deferral or elimination of some the expansion projects in order to control the level of external debt may be a consideration.

The critical questions to be answered at this point in time are as follows:

- **Which capital expansion projects should be approved for 1998?**
- **Should any of the capital expansion projects be delayed?**
- **Should any of the capital expansion projects be eliminated?**

In reviewing these costs, the focus should be on the projects which commence in 1998. Future savings can be achieved through the deferral or elimination of specific projects, but the decision to do so, must be made now. If the projects commencing in 1998 are approved, the related financing costs will commence in 1999.

Capital Expansion Projects...continued

Immediate decisions regarding commencement must be made for the following capital expansion projects, which are scheduled to commence in 1998:

1. Freeway – North-South section;
2. Macassa Lodge final phase;
3. Remediation of various landfill sites;
4. Corporate financial information system;
5. Human Resource Information System; and
6. Downtown Initiatives.

Given the serious implications for not proceeding with the capital expansion projects, it is recommended that the projects scheduled to commence in 1998 (listed above) be approved.

Additional Projects:

Projects **not included in the capital budget** but which warrant special attention are the Dundas Sewage Treatment Plant and Binbrook Servicing. These development issues are summarized in Appendix B (page 28).

B.1 Binbrook Servicing

This project is subject to developer financing. There is therefore no tax levy impact.

B.2 Dundas Treatment Plant Capacity

The Regional share of this project is \$5 million. A source of funding for the Regional share has not been identified at this point in time. Presently, only design funds are included in the Capital Budget. If construction is to commence on this project, the Regional share must be accommodated in the budget or an alternative source of funding identified.

Capital Expansion Projects - General Levy

Gross Capital Expenditure (\$ millions)

Category	Project	1998	1999	2000	3 Year Total	Project Total
Approved Projects:						
Freeway	The Linc (E/W Section)	\$1.2	\$7.7	\$0.1	\$9.0	\$9.1
Homes	Macassa Lodge Ph. 1 & 2	0.0	0.0	0.0	0.0	0.0
Homes	Wentworth Lodge Phase 1	0.0	0.0	0.0	0.0	0.0
Sub-total: Approved Projects		\$1.2	\$7.7	\$0.1	\$9.0	\$9.1
New Projects:						
Freeway	Red Hill Creek (N/S Section)	\$12.1	\$52.2	\$44.0	\$108.3	\$140.4
Homes	Macassa Lodge Final Phase	5.5	12.3	3.1	20.9	20.9
Homes	Wentworth Lodge Ph. 2 & 3	0.0	0.0	0.0	0.0	14.7
Waste	Ancaster Landfill (closed)	0.5	1.2	1.6	3.3	3.3
Waste	Upper Ottawa (closed)	4.0	0.0	0.0	4.0	4.0
Waste	Brampton Street (closed)	0.5	1.0	1.6	3.1	3.1
Waste	Edgewood (closed)	0.2	0.0	1.4	1.6	1.6
Waste	Glanbrook (open)	4.0	0.0	0.0	4.0	4.0
Waste	Binbrook	0.1	0.2	0.0	0.3	0.3
Waste	Stoney Creek	0.1	0.8	0.7	1.6	1.6
Waste	Closed Landfills *	0.0	1.1	1.1	2.2	2.2
Storm	Storm Sewer CSO tanks	0.0	0.3	0.8	1.1	22.1
Corporate	Financial Information System	2.3	2.4	0.0	4.7	4.7
Corporate	HRIS System	0.9	0.0	0.0	0.9	0.9
Police	Mountain Police Station	0.0	11.0	0.0	11.0	11.0
Roads	Downtown Ham. Streetscaping	2.0	0.0	0.0	2.0	2.0
Sub-total: New Projects		\$32.2	\$82.5	\$54.3	\$169.0	\$236.8
* Review/reassessment of former landfill site						
Total Gross Capital Expenditure		\$33.4	\$90.2	\$54.4	\$178.0	\$245.9

Approved Projects:

The capital expenditures for "approved projects" have been incurred or the project is in progress. There is no decision to be made by Council with respect to these projects.

New Projects: Council must decide whether or not to approve projects commencing in 1998.

Appendix "A" to this report provides details for each project. If expenditures are approved for 1998, financing costs will commence in 1999 (financing costs for each project are outlined in Table 2).

Capital Expansion Projects - Utility Program

Gross Capital Expenditure (\$ millions)

Category	Project	1998	1999	2000	3 Year Total	Project Total
New Projects:						
Sanitary Sewers	Pollution Control Plan	\$0.0	\$3.1	\$7.5	\$10.6	\$198.6
Sub-total: New Projects		\$0.0	\$3.1	\$7.5	\$10.6	\$198.6

General Levy Programs - Capital Expansion Projects

Changes in Net Financing Costs (\$ millions)

Category	Project	1998	1999	2000	3 Year Total
Approved Projects:					
Freeway	The Linc (E/W Section)	(\$0.1)	(\$0.1)	\$0.0	(\$0.2)
Homes	Macassa Lodge Ph. 1 & 2	0.0	0.0	0.0	0.0
Homes	Wentworth Lodge Phase 1	0.0	0.0	0.0	0.0
Sub-total: Approved Projects		(\$0.1)	(\$0.1)	\$0.0	(\$0.2)
New Projects:					
Freeway	Red Hill Creek (N/S Section)	\$0.6	\$0.6	\$0.5	\$1.7
Homes	Macassa Lodge Final Phase	0.0	0.0	0.0	0.0
Homes	Wentworth Lodge Ph. 2 & 3	0.0	0.0	0.0	0.0
Waste	Ancaster Landfill (closed)	0.0	0.1	0.1	0.2
Waste	Upper Ottawa (closed)	0.0	0.5	0.0	0.5
Waste	Brampton Street (closed)	0.0	0.1	0.1	0.2
Waste	Edgewood (closed)	0.0	0.0	0.0	0.0
Waste	Glanbrook (open)	0.0	0.5	0.0	0.5
Waste	Binbrook	0.1	(0.1)	0.1	0.1
Waste	Stoney Creek	0.1	(0.1)	0.1	0.1
Waste	Closed Landfills *	0.0	0.0	0.2	0.2
Storm	Storm Sewer CSO tanks	0.0	0.1	0.1	0.2
Corporate	Information System	0.0	0.2	0.2	0.4
Corporate	HRIS	0.0	0.1	0.0	0.1
Police	Mountain Police Station	0.0	0.0	1.0	1.0
Roads	Downtown Ham. Streetscaping	0.0	0.3	0.0	0.3
Sub-total: New Projects		\$0.8	\$2.3	\$2.4	\$5.5
	Off-set by Debt Reduction	(0.3)	0.0	0.0	(0.3)
Total Net Financing Costs		\$0.4	\$2.2	\$2.4	\$5.0

* Review/reassessment of former landfill sites.

Approved Projects:

The capital expenditures for "approved projects" have already been incurred (or in the case of The Linc, in progress), therefore the Region is obligated to pay the associated financing costs.

New Projects:

The above table identifies the impact on the general levy if the proposed "new projects" are approved. If the new capital expansion projects are approved for 1998, the corresponding financing costs will commence in 1999.

Utility Programs - Capital Expansion Projects

Changes in Net Financing Costs (\$ millions)

Category	Project	1998	1999	2000	3 Year Total
New Projects:					
Sanitary Sewers	Pollution Control Plan	\$0.0	\$0.8	\$1.0	\$1.8
Sub-total: New Projects		\$0.0	\$0.8	\$1.0	\$1.8

DEBT IMPLICATIONS

The increased debt charges that will result from an expanded capital program impact both the Region's credit rating and its Current Budget flexibility.

Projected Debt Requirements		(\$millions)		
Capital Budget	1998	1999	2000	
Existing Infrastructure:				
Roads	\$18.2	\$16.0	\$11.1	
Capital Expansion:				
Red Hill Creek	7.0	25.0	21.0	
Waste	5.2	4.2	6.5	
Police Station	-	11.0	-	
Pollution Control	-	2.6	6.7	
Total	\$30.4	\$58.8	\$45.3	

Projected Ratio of Total Debt to Total Reserves (\$millions)			
	1998	1999	2000
Debt to Equity Ratio	1.33	1.82	2.07

IMPLICATIONS:

- Credit Rating:** An acceptable debt to reserves ratio is 1:1, which is the 1997 ratio for the Region. The table above indicates that the debt to reserve ratio is negatively impacted as the Region's debt level rises. If this ratio increases, the Region risks having its credit rating lowered.
- Current Budget Impact:** Additional debt reduces the flexibility in the Operating Budget, because more of the budget is required to service the debt. As a result, the Region's ability to manage the operating budget is impaired. The benchmark for capital financing costs as a percentage of operating expenditures is 5%. In 1998, the estimated general levy related capital financing costs as a percentage of gross operating expenses for same is 5% but additional debt will negatively impact this ratio.
- Downloading:** Compounding the debt implications of an expanded capital program is the potential for additional costs from downloading. Capital requirements and their related impacts have not been determined for Go Transit, ambulances, social housing stock and downloaded highways. The Region has been allocated a \$9 million subsidy for the downloaded highways, but a needs assessment has not been finalized that would determine the adequacy of this subsidy vis a vis the requirements for the highways.

OPTIONS:

Given the implications of borrowing externally for the Region's capital financing requirements, it is recommended that other structured financing options be explored in order to accommodate future capital requirements.

OFFICE OF THE REGIONAL CLERK
MEMORANDUM

TO: Chairman T. Cooke
and Members of Regional Council

FROM: Robert C. Prowse
Regional Clerk

PHONE: (905) 546-4140

SUBJECT: 1998 - 2007 Capital Budget

DATE: 1998 April 9

The enclosed document titled 1998 - 2007 Capital Budget Business Plan will be discussed at the Budget Workshop meeting of all Members of Regional Council, Friday, April 17, 1998.

Please bring the document with you to the meeting, as additional copies will not be available.

Thank you.


/RCP/mar

Capital Budget

Appendices

Appendix A: Capital Expansion Projects

A-1. FREEWAY – RED HILL CREEK

Status of Project:

The East/West section of The Red Hill Creek Expressway, renamed the Lincoln M. Alexander Parkway (The LINC), from Hwy 403 to Dartnall Road, was opened to vehicular traffic on October 15, 1997.

The Region is currently completing the planning and preliminary design work for the North/South section through an Impact Assessment Design Process. The Red Hill Creek Watershed Plan is also underway at the present time. The extension to Mud/Paramount Streets is scheduled to be opened by November 1999 and the North/South section is scheduled for completion by November 2002.

Total Project Cost:	\$339.4 million
Less: Provincial Subsidy	(182.4)
Development Charge Revenue	(48.2)
Misc. Other Revenues	(8.9)
Net Regional Cost:	\$ 99.9 million

Financing Plan:

The entire costs of the freeway project will be financed over a 25 year period. The plan builds in Provincial subsidy, development charges revenue, and the contribution required from the tax levy.

Commencing in 1998, the amount required to finance the freeway must increase by \$500,000 annually, to the year 2005. The contribution required in 1998 totals \$2.3 million (of which \$1 million is required for the North/South section and the QEW interchange, and the remainder to finance the costs already incurred on the East/West section).

APPENDIX A.1 – FREEWAY ...continued

Summary of Expenditures:

(\$millions)

	Gross Expenditures	Spent to Dec. 1997	Remaining Costs to Complete
East/West Section	\$162.0	152.9	9.1
North/South Section	168.9	37.0	131.9
QEW Interchange	8.5	0.0	8.5
Total	\$339.4	\$189.9	\$149.5

Financing Alternatives:

The Region has been approached by a number of outside parties who have indicated their interest in financing the remainder of the work for the freeway. At the present time, this option has not been explored.

Appendix A: Capital Expansion Projects

A-2. HOMES FOR THE AGED

Summary of Gross Expenditures:

(\$millions)

Project	1998	1999	2000	Project Total
Macassa Lodge Final Phase	5.5	12.3	3.1	20.9
Wentworth Lodge Phases 2 & 3	0.0	0.0	0.0	*14.7
Total	\$5.5	\$12.3	\$3.1	\$35.6

*Ministry funding not secured - Project to commence in 2001

Macassa Lodge:

Macassa Lodge expenditures relate to the final phase of the Renovations Program, being the demolition of C-Wing and the re-building of a three storey unit to house 114 frail, elderly residents. It will also include the renovation of the E-Wing to meet long-term care standards and house 48 residents.

Originally scheduled for funding with the Province on a 50:50 basis, the project will be funded through the Canada-Ontario Infrastructure Works Program. On February 13, 1998, the Region received formal grant funding approval in the amount of \$11.4 million from the Provincial and Federal Government. The Region's share totals \$9.6 million, including the Region's construction inflationary rate under this three year project. Under the Canada-Ontario Infrastructure Works Program, expenditures are to be equally funded by each of the three partners. However, the full project could not be funded by COIW, and the gross expenditures were capped at \$17 million for the cost-sharing.

On Feb. 3, 1998, Regional Council approved Report SOC98031 "That the Region maintain the existing capital budget allocation of \$8.5 million as our share for the \$19.9 million final phase of renovations at Macassa Lodge". This was the original allocation under the 50:50 formula.

Implications of Not Proceeding

If the Region does not proceed with the final phase of the Macassa expansion, the subsidy funding in the amount of \$11.4 million will be forfeited. To date, approximately \$100,000 has been spent on schematic design work. The project tender is planned for April 1998. If the project cost is maintained at \$17 million, costs will not be sufficient for the e-wing renovations, which are necessary to meet long term care requirements. In light of the health services restructuring, it is recommended that the balance of the debenture proceeds for Hospital Grants in the amount of \$7.5 million, be redirected to finance the shortfalls in this project.

Wentworth Lodge:

The 1997 Budget included costs of \$14 million relating to the demolition & reconstruction of the north and south wings, as well as renovations in the west wing. The Provincial subsidy was estimated to be 50% or \$7 million. This project has now been pushed forward beyond the year 2000 as no commitment has been received by the Province for the related subsidy.

Appendix A: Capital Expansion Projects

A-3. WASTE MANAGEMENT

Summary of Gross Expenditures:

(\$millions)				
Landfill Site	1998	1999	2000	Project Total
Ancaster	\$0.5	\$1.2	\$1.6	\$3.3
Upper Ottawa Street	4.0	0.0	0.0	4.0
Brampton Street	0.5	1.0	1.6	3.1
Edgewood	0.2	0.0	1.4	1.6
Glanbrook	4.0	0.0	0.0	4.0
Binbrook	0.1	0.2	0.0	0.3
Stoney Creek	0.1	0.8	0.7	1.6
Studies (closed sites)	0.0	1.1	1.1	2.2
Total	\$9.4	\$4.3	\$6.4	\$20.1

On October 15, 1996, Regional Council approved the Remedial Action Program for Closed Landfill Sites (Report ENV 96-094). In doing so, the Upper Ottawa Street, Edgewood, and Ancaster landfill sites were deemed to be the highest priority for completion of remedial action plans. The proposed remediation at the landfill sites and the implications of not proceeding with same, as detailed in Report ENV 96-094, are summarized in the table on the following page.

Given the severity of the implications regarding these sites, the Ministry of Environment will have cause to charge the Region if remediation measures are not implemented in an effective and timely manner. Adherence to the Remedial Action Plan requires the bulk of the remediation at the landfill sites to commence as soon as possible. Accordingly, construction is scheduled in 1998, thereby impacting the net capital financing costs in 1999.

At the present time, some of the projects are still undergoing monitoring to identify the extent of the remediation required which may permit the scheduled remediation to be scaled down. For example, the Brampton Street landfill site may require the installation of a leachate collection system for one instead of two areas. With this in mind, a portion of the remediation costs has been pushed out to the year 2000 in order to reduce the financial impact in the short-term.

Further analysis may permit the elimination of some of the work and the associated costs; but for the time being, the costs remain in the budget as a due diligence measure.

Highest Priority: Upper Ottawa Street

On January 20, 1998, Council approved selection of the preferred option, Alternative 5, being a reinforced sideslope with reinforcing structure for the North Slope Remediation and Alternative 6, being a full length leachate collection system with barrier and treatment (ENV97008c). This approval is subject to the completion of the Class EA process, which is currently in its final stage.

WASTE MANAGEMENT...continued

Proposed Remediation at Landfill Site	Implications of Not Proceeding
Ancaster Design and install a leachate collection system.	Leachate will continue to flow uncontrolled off-site into groundwater and abutting properties west of the landfill, impacting the quality of the groundwater.
Upper Ottawa Street Improve and remediate northern side of the closed landfill site to improve slope stability and control flow of leachate into Red Hill Creek. Remediation of the north slope is the most urgent priority relative to all other closed landfill sites.	Leachate will continue to flow uncontrolled into the Red Hill Creek. Erosion will persist impacting the quality of the Creek. Potential for north slope to break away from landfill mass, sliding into the Creek.
Brampton Street The 1996/97 Environmental monitoring program to determine future remedial actions is complete. Covering exposed leachate seeps is needed to prevent contact. If the MOE rejects the Region's report, a full leachate collection system may be required.	Leachate will continue to flow uncontrolled off-site into the Red Hill Creek, impacting the quality of the creek as well as remaining exposed for potential contact with people and animals.
Edgewood Design and install a leachate collection system.	Leachate will continue to flow uncontrolled off-site into the groundwater and abutting properties, impacting the quality of the groundwater as well as the general environment.
Glanbrook Design and install a leachate collection system as an alternative to trucking leachate from the site. Leachate mounding is above the acceptable level and is pushing leachate out from the site, threatening to impact off-site.	Leachate will continue to flow uncontrolled off-site impacting the quality of life of neighbouring residents and their properties, as well as affecting the water quality in the Buckhorn Creek and Welland River.

Appendix A: Capital Expansion Projects

A-4. STORM SEWER & SANITARY SEWERS – CSO TANKS

Summary of Gross Expenditures:

	(\$millions)			
	1998	1999	2000	Project Total
Redhill CSO Tanks/Tunnel	0.4	3.5	6.9	10.8
Sterling CSO Tank	-	-	1.5	10.4
Ewen Road CSO Tank*	-	-	-	8.2
Royal Ave CSO Tank*	-	-	-	12.0
Gage Ave CSO Tank*	-	-	-	87.5
Birch Ave CSO Tank*	-	-	-	10.0
Wentworth CSO Tank**	-	-	-	28.0
Wellington CSO Tank**	-	-	-	34.3
Greenhill CSO Tank**	-	-	-	20.0
TOTAL	\$0.4	\$3.5	\$8.4	\$221.2

* To be constructed between 2001-2007

**To be constructed between 2008-2014

The Pollution Control Plan (PCP) adopted by Council in 1992 is currently being implemented by the Region. The plan entails the construction of a number of underground storage tanks to reduce the volume and frequency of combined sewer overflows.

Redhill CSO Tanks/Tunnels

The 1998-2000 Capital Budget submission includes projected expenditures for Redhill CSO tanks or tunnel. Conceptual engineering has begun on storage facilities to reduce the frequency and volume of existing CSO's along Redhill Creek at Melvin Avenue, Queenston Road and Lawrence Road with both separate off-line storage tanks or an in-line storage tunnel being considered. The work is currently being planned in coordination with the Freeway Project.

Financing of the Project:

The CSO Tanks are funded mainly through the Sanitary Sewers Program (90%) and the remaining amount (10%) from the Storm Sewer Levy. The split is based on the annual distribution of flows in the sewer collection system as contained in the Pollution Control Plan document approved by Regional Council in 1992.

Implications of Not Proceeding

Deferral of this project will result in continued discharge of combined sewage to Redhill Creek at 4 locations on an average of 20-30 times per year per outfall. As well, the opportunity to coordinate this project with the freeway works, could be lost (resulting in additional costs for clearing, relocating utilities, additional investigations and removal of excavated material).

Appendix A: Capital Expansion Projects

A-5. CORPORATE FINANCIAL INFORMATION SYSTEM

Summary of Gross Expenditures:

(\$millions)

	1998	1999	2000	Project Total
Financial Information Systems	2.3	2.4	-	4.7
Less: City of Hamilton Share	(1.2)	(1.2)	-	(2.4)
Region's Share	\$1.1	\$1.2	-	\$2.3

In 1997, City and Regional Councils authorized that staff commence a process of evaluating alternatives for replacing the existing financial and human resource systems for the City and the Region. A Project Team consisting of Regional Finance, City Treasury, Human Resources and Information Systems staff was formed to proceed with this project.

Capital costs for the financial system total \$4.7 million with \$2.3 million being the Region's share. These costs include licensing fees, implementation costs including staffing, consulting and hardware requirements

Current Operating Costs:

Currently the City and the Region spend approximately \$2 million annually to run their Corporate Financial Systems. Findings in the Shared Services review indicated the potential for annual operating savings of approximately \$500,000. A 5 year payback period was projected.

Current Status of Project:

Phase 1 of the Project has now been completed (vendor solicitation) and the Project Team has proceeded to Phase 11 (evaluation of vendor demonstrations). There are three systems currently being reviewed.

Implications of Not Proceeding:

The current software that is shared by the City and the Region is not compliant with the Year 2000 and therefore must either be upgraded or replaced before January 1, 2000. Most software that is non-compliant with the Year 2000 was developed in the 60's or 70's and hence represents very old technology. A decision was therefore made to review options of replacing the system rather than upgrading the present system.

Preference is being given to adopting a client server technology that will also provide necessary management support systems (decision tools) rather than strictly a financial reporting system as currently exists. It is crucial that this project proceed on schedule due to timing restrictions to select, install and test the system, required by December 31, 1999.

Appendix A: Capital Expansion Projects

A-6. HUMAN RESOURCE SYSTEM

The Human Resources Department issued a request for a new Human Resources System in 1994. The preferred vendor they selected has now withdrawn from actively market its product and therefore an integrated Financial and Human Resource System is now being considered.

Should an integrated system meet both the financial and human resources needs, and if costs are favourable, then the integrated solution will be recommended. However, if a standalone system better meets their needs and is easily interfaced with the Corporate Financial System, then this will be considered.

Regional Council previously approved this project in the amount of \$1 million with 50% cost shared with the City. There is a \$900,000 provision for the HRIS system contained in the Budget with the Region's share being \$450,000.

Evaluation of an HRIS system is being completed in conjunction with the process for the Corporate Financial Information System.

Appendix A: Capital Expansion Projects

A-7. MOUNTAIN POLICE STATION

Summary of Gross Expenditures:

(Smillions)				
	1998	1999	2000	Project Total
Mountain Station	0	\$11	0	\$11

Requirement for a New Building:

Accessibility issues and structural deficiencies in the existing location are the basis for the proposed construction of a new police station on the South Mountain. More specifically, it has been determined that the current building located on Wellington Street is too close to the escarpment to provide effective accessibility for citizens living on the south mountain. Accessibility issues are further compounded by structural deficiencies in the current building which was built in the 1950's. Heating, cooling and general ventilation systems, as well as space requirements, are considered inadequate.

Although this project was considered in 1992, it was delayed as a result of funding constraints.

Current Status of Project:

In the spring of 1997, a consultant was retained by the Police Services Board to examine the feasibility of renovating the HSR facility on Highway 6 to accommodate the Police facility. For a number of reasons, this renovation was not recommended.

Currently, a Committee Task Force consisting of members from Police Services, City of Hamilton Realty, Culture and Recreation, and the Hamilton Library have been discussing the possibility of partnership in a shared facility. The sharing of a building would result in substantial building cost savings and operational savings. The City of Hamilton will be assessing their building requirements as part of their capital budget process. No final decision has been made regarding this option.

Appendix A: Capital Expansion Projects

A-8. Downtown Initiatives – City of Hamilton

The attached schedule details the 1997 expenditures made in the Waterworks, Storm and Sanitary Sewer and Roads programs, for the downtown area. In 1997, the Region funded the replacement of traffic poles in the Downtown Restore the Core Phase I area and undertook watermain and sewer projects on sections of King Street, Hughson Street, and King Street. Various streets were resurfaced and crosswalks replaced. A concept for unique street name signing for the Downtown was developed, incorporating special street name blades and colours. These initiatives resulted in expenditures of \$2.2 million in 1997.

Also listed on the attached schedule, are the projects planned for 1998 through 2000 in each of the Waterworks, Storm and Sanitary Sewers and Roads programs. Watermain and sewer replacement, repair or rehabilitation is planned under the City of Hamilton's Restore the Core Phase II construction projects. Traffic pole and street sign replacement is planned as well as the resurfacing or reconstruction of various road links. A major expenditure will be made over the next 3 years, in the amount of \$4.4 million, implementing the approved recommendations of the Downtown Transportation Study.

The expenditures noted above (and detailed on the following page) fall within the Region's domain, being road and sewer works that are an integral part of the capital budget program. In addition to these projects, it is proposed that a further expenditure be made in respect of the downtown core, which does not lie within the scope of the traditional capital budget for the Region – this proposal is set out below.

Further Initiatives:

Early in 1998, Regional Council approved the concept of a **Downtown Partnership Board**, comprised of representatives from the private sector as well as the Mayor and Regional Chairman. The mandate of the Board would be to coordinate, initiate and advise on programs and plans to revitalize the downtown core of the City of Hamilton.

In support of the objectives of the Downtown Partnership Board, it is recommended that the 1998 Capital Budget include a \$2 million contribution, to be held in a special fund, for plans developed and approved by City Council, in conjunction with the Downtown Restore the Core Program. The use of these funds would be contingent on consultation with the Downtown Partnership Board and implementation of the plans would be the City's responsibility. As such, the Region contributes to this initiative but does not undertake work outside of its jurisdiction, while at the same time, giving the City flexibility to manage the funds within its own programs.

This additional proposed expenditure of \$2 million has been included in the Capital Expansion Table on pages 11 & 13 of this report, for consideration by Council.

Downtown Projects (000's)

		<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001- 2007</u>
<u>Sanitary Sewers</u>						
4061826	Infrastructure Co ordination.		\$ 154	\$ 105	\$ 108	\$ 3,896

<u>Waterworks</u>						
4051858	Infrastructure Coordination		250	315	431	696
4051859	King - Mary To Wellington		333	-	-	-
4051868	Walnut - King William to Main		142	-	-	-
4051054	King William - James to Catharine		-	-	211	-
4051055	Hughson - Main to Hunter		-	-	76	-

<u>Storm Sewers</u>						
4071826	Infrastructure Coordination		400	344	323	1,148

<u>Roads</u>						
3011730	Downtown Transportation Study	*	510	1,665	2,225	-
3011793	Streetscaping Contribution - Phase II		50	-	-	-
Total			<u>\$ 1,839</u>	<u>\$ 2,429</u>	<u>\$ 3,374</u>	<u>\$ 5,740</u>

* The Downtown Transportation Study Budget of \$ 510,000 reflects:

Resurfacing of James St.	200
Heritage Traffic Poles	100
Unique Downtown Street Signs	20
Transportation Study	190
	<u>510</u>

1997 Downtown Spending

4051532	King Wm-Catharine to Well.	Water	\$ 261,300
4051722	Hugson- King Wm to Main	Water	122,610
4051726	King-James to Bay	Water	272,240
4051768	King - James to Catharine	Water	452,310
4061701	King St - James to McNab	Sanitary	115,000
4071703	King St - James to McNab	Storm	115,000
4071736	Hugson Main to King	Storm	45,350
4071533	King Wm West to Jarvis	Storm	527,340
3011731	Replacement of Traffic Poles	Roads	300,000
Total			<u>\$ 2,211,150</u>

Appendix B: Projects Not in Capital Budget

B-1. BINBROOK WATER AND SEWAGE SERVICING

Summary of Gross Expenditures:

	Payment	Servicing Binbrook Independently	Binbrook Servicing Concurrent with Glanbrook Landfill Site Leachate Removal
Binbrook Water Supply (1)	Developers	\$3.2	\$3.2
Binbrook Sewage (1)	Developers	4.4	3.3
Landfill Remediation (2)	Region	1.2	1.2
Total Servicing Cost		\$8.8	\$7.7

Note:

- (1) Costs for Binbrook servicing are preliminary estimates only and should be considered accurate to within +/- 50%. These costs enable the servicing of a population of 15,000 residents. Estimates do not include costs for local collection and distribution systems.
- (2) Landfill Remediation costs include cost of transmission main from Binbrook to existing sewer system. An additional \$2.8 is included in the Capital Budget for treatment costs.

Status of Glanbrook Landfill Remediation:

At the present time, leachate is being trucked from the site at an annual cost of approximately \$800,000, which cost must be included in the Operating Budget.

On March 17, 1998, Council approved the preferred option for Binbrook Wastewater Servicing, consisting of a pumping station and pumping via a forcemain for treatment to the Woodward Avenue treatment plant.

The proposed 1998 Capital Budget includes \$4 million cost for the leachate collection system, being \$1.2 million for the sewer and \$2.8 million for treatment costs (see pages 11 & 13).

Status of Binbrook Servicing:

There is an opportunity for cost savings in the amount of \$1.1 related to the servicing of Binbrook, if this servicing is done in conjunction with the proposed installation of a leachate collection system at the Glanbrook Landfill site.

On March 17, 1998, Council approved service to the Binbrook Urban Settlement Area, subject to a financing agreement from the development community for the associated costs, in time to be implemented in conjunction with the landfill site leachate collection/treatment work (ENV98042). In accordance with this resolution, Binbrook servicing is to be developer-financed, therefore no impact on the tax levy.

Appendix B: Projects Not in Capital Budget

B-2. DUNDAS SEWAGE TREATMENT PLANT

Status of Project:

On January 20, 1998, Council approved the preferred option, alternative 2B, for the provision of wastewater treatment capacity to the Town of Dundas and the Town of Flamborough. This option will divert flow in excess of the existing plant capacity to the Woodward Avenue treatment plan, with the provision of equalization storage. This approval is subject to the successful completion of the Class Environmental Assessment Process.

The Commissioner of Environment was directed to secure a financing agreement from the development community for their portion of the associated costs, prior to the commencement of construction on this project.

The estimated cost for this project is \$15 million, of which \$5 million is the non-growth portion that is the Regional share. The balance of \$10 million is the share which must be frontended by the development community. The developers would be repaid for their share of the project through development charge credits.

At this time, no provision has been made in the Capital Budget for the \$5 million Regional share of this project. It is recommended that the estimated Regional share be accommodated in the Environment Department Capital Budget for 1999.

Appendix C: Project Rankings

The Capital Budget projects contained in departmental submissions were ranked on a corporate basis by the Development Coordinating Committee, a staff committee comprised of senior departmental administrators from the Environment Department, Transportation Department Legal Services, Health, Economic Development, and Financial Services.

Each project was assessed on the following attributes and weights:

<u>Attribute</u>	<u>Weight</u>
• Contractual Obligations	0.4083
• Hazard to Public Health and Safety	0.2417
• Vision 2020 Compatibility	0.1583
• Urgency	0.1027
• Subsidy and External Revenue Sources	0.0610
• Economic Attractiveness	<u>0.0280</u>
	1.0000

The results of the ranking process are contained in Appendices C-1 (General Levy projects) and C-2 (Utility projects). The capital expansion projects are not included in this ranking. Projects are listed by order of priority, with the highest priority project receiving the highest rating. Council may wish to re-prioritize these projects.

If future savings are required through the elimination of projects, it is recommended that the lowest priority projects be targeted.

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH
1998 CAPITAL BUDGET

DEVELOPMENT CO-ORDINATING COMMITTEE PROJECT RANKINGS

Program	Project	Project Description	Rating	S	ER	U	E	H	V	C	1998-2000 Net Cost
Storm Sewers	4071743	Plastimet Site - Catch Basin & Connection	8.97	0	10	10	4	10	8	10	0
Storm Sewers	4071526	Purchase Easements	8.55	0	10	10	8	7	10	10	15
Storm Sewers	4071821	Purchase Easements	8.49	0	0	10	8	7	10	10	425
Storm Sewers	4071716	Adair - Queenston to 123m N of Main	8.15	0	10	10	4	10	8	8	35
Storm Sewers	4071720	Ferguson Avenue Sewer Rehabilitation	7.86	0	10	10	8	9	7	8	361
Storm Sewers	4071705	Annual - Rehabilitation	7.70	0	10	10	4	8	9	8	238
Waste Management	4031818	Landfill Upgrades - Pending Negotiations	7.60	0	0	10	8	8	8	8	53
Storm Sewers	4071514	Burlington St - Wellington St to 110m Westerly	7.55	0	10	10	4	8	8	8	10
Storm Sewers	4071530	Dunsmure Rd - Edgemont St to Huxley Ave	7.55	0	10	10	4	8	8	8	16
Storm Sewers	4071533	King William - West Ave to Jarvis St	7.55	0	10	10	4	8	8	8	17
Storm Sewers	4071614	Grant - Main to approx. 240m S	7.55	0	10	10	4	8	8	8	43
Storm Sewers	4071620	Augusta St - James to Hughson	7.55	0	10	10	4	8	8	8	9
Storm Sewers	4071632	St Joseph's Dr - Mountwood to John St & John St Easterly	7.55	0	10	10	4	8	8	8	10
Storm Sewers	4071637	Myrtle - Delaware to 78m South	7.55	0	10	10	4	8	8	8	47
Storm Sewers	4071639	Earl 21st - MacLennan to 244m Southerly	7.55	0	10	10	4	8	8	8	4
Storm Sewers	4071713	Selkirk - Roxborough to approx. 300m S	7.55	0	10	10	4	8	8	8	9
Storm Sewers	4071715	East 8th - Re-direction of flow from Fennell	7.55	0	10	10	4	8	8	8	3
Storm Sewers	4071727	Weir - Roxborough to 94m S of Dunsmure	7.55	0	10	10	4	8	8	8	16
Storm Sewers	4071730	Crockett - E36 th E 37th & E37th - Crockett to N	7.55	0	10	10	4	8	8	8	26
Storm Sewers	4071732	Argyle St - Ottawa to Frederick	7.55	0	10	10	4	8	8	8	29
Storm Sewers	4071736	Hughson - Main to King	7.55	0	10	10	4	8	8	8	32
Storm Sewers	4071737	Emerson - Royal to Ward & Holmes to Whitney	7.55	0	10	10	4	8	8	8	104

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DEVELOPMENT CO-ORDINATING COMMITTEE PROJECT RANKINGS

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<u>Program</u>	<u>Project</u>	<u>Project Description</u>	<u>Rating</u>	<u>S</u>	<u>ER</u>	<u>U</u>	<u>E</u>	<u>H</u>	<u>V</u>	<u>C</u>	<u>1998-2000 Net Cost</u>
Storm Sewers	4071738	Cumberland - Wentworth to Sanford	7.55	0	10	10	4	8	8	8	4
Storm Sewers	4071740	East 22nd - Fennell to Queensdale	7.55	0	10	10	4	8	8	8	30
Storm Sewers	4071752	East 38th - Mohawk to Macassa	7.55	0	10	10	4	8	8	8	488
Storm Sewers	4071753	Fernwood - Tenth to Ninth	7.55	0	10	10	4	8	8	8	21
Storm Sewers	4071825	Western Sanitary Interceptor Rehabilitation	7.52	0	10	10	8	9	10	6	584
Storm Sewers	4071703	Annual - Minor Improvements	7.39	0	10	10	4	8	7	8	65
Storm Sewers	4071712	Bromley - Holt to 86m W & Holt - Sheridan to 20m S of Bromley	7.39	0	10	10	4	8	7	8	99
Storm Sewers	4071714	Morley - Parkdale to approx. 160m E	7.39	0	10	10	4	8	7	8	382
Storm Sewers	4071724	Cheryl Ave - East 31st to East 32nd	7.39	0	10	10	4	8	7	8	179
Storm Sewers	4071726	East 31st - Cheryl Ave to approx. 180m S	7.39	0	10	10	4	8	7	8	123
Storm Sewers	4071739	Dalewood - Traymoore to Sterling	7.39	0	10	10	4	8	7	8	15
Storm Sewers	4071742	Cumberland - Sanford to Gage	7.39	0	10	10	4	8	7	8	248
Storm Sewers	4071770	Shaw St - Victoria N to Wentworth	7.39	0	10	10	4	8	7	8	112
Storm Sewers	4071999	Closed Projects	7.39	0	10	10	4	8	7	8	54
Waste Management	4031813	Baghouse Cladding at SWARU	7.35	0	0	10	8	7	8	8	103
Waste Management	4031814	Spray Cooler Tower Repair	7.35	0	0	10	8	7	8	8	146
Waste Management	4031816	Condenser Overhaul and Repair at SWARU	7.35	0	0	10	8	7	8	8	667
Waste Management	4031817	SWARU Upgrades - Pending Negotiations	7.35	0	0	10	8	7	8	8	1,933
Waste Management	4031819	Transfer Station Upgrades - Pending Negotiations	7.35	0	0	10	8	7	8	8	236
Waste Management	4031912	Tipping Floor Repairs at SWARU	7.35	0	0	10	8	7	8	8	173
Storm Sewers	4071946	Adeline - 108m N to 87m S of Dunsnure	7.33	0	10	10	4	10	8	6	150
Storm Sewers	4071947	Beechwood - Barnesdale N to 115m Westerly & Outlet	7.33	0	10	10	4	10	8	6	116

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REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

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DEVELOPMENT CO-ORDINATING COMMITTEE PROJECT RANKINGS

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Program	Project	Project Description	Rating	S	ER	U	E	H	V	C	1998-2000 Net Cost
Storm Sewers	4073743	MA - Allison Neighbourhood Storm Sewer	7.26	0	10	8	4	7	9	8	52
Storm Sewers	4071137	Computer Based Real-Time Control of Sewers (50%)	7.21	0	10	10	8	5	9	8	158
Storm Sewers	4071348	Hamilton Harbour Water Quality Improvement	7.15	0	10	10	4	3	8	10	34
Waste Management	4031803	Mountain Transfer Station - Weigh Scale	7.09	0	0	8	6	7	8	8	265
Roads	3011627	Mohawk Rd - Wilson St. to 100m West of McNiven Rd	7.08	0	0	10	8	6	7	8	864
Waste Management	4031910	Expansion of Transfer Stations & Operational Improvements	7.04	0	0	8	4	7	8	8	1,077
Waste Management	4031503	Comprehensive Environmental Monitoring Program	6.94	0	0	10	8	8	9	6	138
Waste Management	4031505	Security Fencing - Former Landfill Site	6.94	0	0	10	8	8	9	6	34
Storm Sewers	4071870	Annual - Minor Improvements	6.89	0	10	10	4	8	9	6	868
Storm Sewers	4071871	Annual - Rehabilitation	6.89	0	10	10	4	8	9	6	2,761
Storm Sewers	4071873	Contingency for Unscheduled Works	6.89	0	10	10	4	8	9	6	5,133
HSR	3221001	Vehicle Program	6.87	0	0	6	4	6	9	8	5,144
Storm Sewers	4071826	Hamilton Downtown Core - Infrastructure Coordination	6.80	0	10	10	4	7	10	6	1,067
Roads	3011774	Annual ReflectORIZED Signs & Markings (1997)	6.76	0	0	10	0	9	7	6	63
Roads	3011874	Annual ReflectORIZED Signs & Pavement	6.76	0	0	10	0	9	7	6	265
Storm Sewers	4071019	MacNab - Strachan to Ferrie & Ferrie - MacNab to James	6.73	0	10	10	4	8	8	6	339
Storm Sewers	4071020	SUPPLEMENTARY - Elgin - Robert to Cannon	6.73	0	10	10	4	8	8	6	139
Storm Sewers	4071024	SUPPLEMENTARY - Maple - Ottawa to London/Maple southerly	6.73	0	10	10	4	8	8	6	384
Storm Sewers	4071026	SUPPLEMENTARY - E27th - Queensdale to approx. 80m S of Bruce dale	6.73	0	10	10	4	8	8	6	673
Storm Sewers	4071028	SUPPLEMENTARY - Mountwood - St. Joseph's Dr to Rockwood	6.73	0	10	10	4	8	8	6	50
Storm Sewers	4071032	East 24th - MacLennan to approx. 244m S	6.73	0	10	10	4	8	8	6	230
Storm Sewers	4071033	Aberdeen - 120m W of Studholme to 2440 x 3150 Box Culvert	6.73	0	10	10	4	8	8	6	78

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DEVELOPMENT CO-ORDINATING COMMITTEE PROJECT RANKINGS

Program	Project	Project Description	Rating	S	ER	U	E	H	V	C	1998-2000 Net Cost
Storm Sewers	4071035	Baxter - Winston to Bowman & Bowman - Baxter to Sussex	6.73	0	10	10	4	8	8	6	293
Storm Sewers	4071048	Huxley - King to Monterey	6.73	0	10	10	4	8	8	6	221
Storm Sewers	4071817	Murray - Park to MacNab	6.73	0	10	10	4	8	8	6	117
Storm Sewers	4071819	Fernwood - Thelma to approx. 170m S	6.73	0	10	10	4	8	8	6	109
Storm Sewers	4071820	Castlefield - Approx. 40m S of Fernwood to 213m S	6.73	0	10	10	4	8	8	6	155
Storm Sewers	4071822	Clarendon - Mitchell to Fennell	6.73	0	10	10	4	8	8	6	216
Storm Sewers	4071823	East 31st - Crockett to Munn	6.73	0	10	10	4	8	8	6	190
Storm Sewers	4071827	Greenwood - 90m S of Fernwood to 244m S	6.73	0	10	10	4	8	8	6	177
Storm Sewers	4071828	Maplewood - Gage to Blake & Blake - Maplewood to Roseland	6.73	0	10	10	4	8	8	6	1,414
Storm Sewers	4071829	Delevan - Seven Oaks to 90m W then to approx. 5.5m S	6.73	0	10	10	4	8	8	6	107
Storm Sewers	4071830	Crockett - Upper Gage to E38th	6.73	0	10	10	4	8	8	6	171
Storm Sewers	4071832	E44th - Fennell to Lupin	6.73	0	10	10	4	8	8	6	391
Storm Sewers	4071833	East 34th - Crockett to Munn	6.73	0	10	10	4	8	8	6	182
Storm Sewers	4071834	Martin - Hixon to Lawrence	6.73	0	10	10	4	8	8	6	152
Storm Sewers	4071835	East 32nd - Crockett to Munn	6.73	0	10	10	4	8	8	6	189
Storm Sewers	4071836	King's Forest - Cecilia to Tilbury	6.73	0	10	10	4	8	8	6	162
Storm Sewers	4071837	East 33rd - Crockett to Munn	6.73	0	10	10	4	8	8	6	153
Storm Sewers	4071838	Ferguson - King William to 91m S	6.73	0	10	10	4	8	8	6	113
Storm Sewers	4071843	Bay - Markland to Inglewood	6.73	0	10	10	4	8	8	6	217
Storm Sewers	4071872	Annual - Detailed Engineering	6.73	0	10	10	4	8	8	6	474
Storm Sewers	4071899	Annual - Preliminary Engineering	6.73	0	10	10	4	8	8	6	474
Storm Sewers	4071942	SUPPLEMENTARY - Edith - Nova to Fern & Ellsworth to Broker & Outlets	6.73	0	10	10	4	8	8	6	475

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DEVELOPMENT CO-ORDINATING COMMITTEE PROJECT RANKINGS

Program	Project	Project Description	Rating	S	ER	U	E	H	V	C	1998-2000 Net Cost
Storm Sewers	4071943	Knyvet - Inverness to Kelso	6.73	0	10	10	4	8	8	6	177
Storm Sewers	4071954	West 1st - Fennell to 90m S of Wembley	6.73	0	10	10	4	8	8	6	271
Roads	3051002	Perimeter Road - Property Maintenance	6.65	0	100	10	0	2	8	8	0
Storm Sewers	4071446	East 15th - Howe Ave to Fennell - Storm Outlet	6.57	0	10	10	4	8	7	6	20
Storm Sewers	4071638	Clifford Ave - South end of street to Royal Ave	6.57	0	10	10	4	8	7	6	452
Storm Sewers	4071824	MOEE CSO Guideline Review	6.55	0	10	10	8	5	10	6	37
Waste Management	4031710	Kenora, Dundas, Mountain Transfer Stations - Roof Repairs	6.55	0	0	10	8	3	9	8	242
Storm Sewers	4071940	Tuxedo - 100m S of Monterey to Main	6.52	0	10	8	4	8	8	6	594
Storm Sewers	4071941	Dundurn - Glenside to approx. 210m S	6.52	0	10	8	4	8	8	6	420
Storm Sewers	4071945	Annual - Municipal Act Program	6.52	0	10	8	4	8	8	6	514
Storm Sewers	4073843	MA - Miles - 265m S of Rymal to 314m S	6.44	0	10	8	4	7	9	6	17
Waste Management	4031616	Computer System for Solid Waste Facilities' Weigh Scales	6.28	0	0	8	6	3	9	8	80
Waste Management	4031201	Preparation for Excavation of Stage 3 Glanbrook Landfill Site	6.06	0	0	8	0	5	10	6	20
Roads	3011703	Annual New Traffic Signal Installation Program (1997)	5.76	0	72	8	0	10	8	2	9
Roads	3011803	Annual New Traffic Signal Installation Program	5.76	0	72	8	0	10	8	2	267
Roads	3011129	Regional Trail Development	5.63	50	0	8	0	6	9	4	73
Roads	3011582	Main St. - Gary to Hwy #403	5.63	0	0	10	8	0	7	8	145
Roads	3021115	Cootes Dr. - Olympic Dr to Town Limits	5.63	0	0	10	8	0	7	8	139
Roads	3021116	Cootes Dr - Main St to City Limits	5.63	0	0	10	8	0	7	8	197
Storm Sewers	4071818	James Mountain Rd - 40m N to 55m S of Aberdeen	5.52	0	10	10	4	3	8	6	702
Roads	3011824	Hwy 20 at Ridge Rd. - Left Turn Lanes & Culvert Extension	5.48	0	0	8	0	10	9	2	260
Waste Management	4031600	Landfill Gas Recovery - Glanbrook Landfill Site	5.47	0	0	8	6	3	9	6	112

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Program	Project	Project Description	Rating	S	ER	U	E	H	V	C	1998-2000 Net Cost
Roads	3011810	Annual Escarpment Stabilization	5.44	0	0	10	0	9	9	2	869
Roads	3011026	King St. Bridge (#1500) over Kenilworth Access	5.35	0	0	10	8	9	7	2	119
Roads	3011028	York Boulevard Bridge #1147	5.35	0	0	10	8	9	7	2	32
Roads	3011633	Kenilworth Access Bridge	5.35	0	0	10	8	9	7	2	398
Roads	3011727	Burlington St Bridge (#1537) over Kenilworth Ave	5.35	0	0	10	8	9	7	2	3,937
Roads	3011831	Industrial Dr. Bridge (#1539) East of Gage Ave.	5.35	0	0	10	8	9	7	2	470
Roads	3011832	Lawrence Rd. Bridge (#1501) over Kenilworth Access	5.35	0	0	10	8	9	7	2	725
Roads	3011836	Sydenham Rd Bridge (#3003) north of King St.	5.35	0	0	10	8	9	7	2	439
Roads	3011926	York Boulevard Bridge #1146	5.35	0	0	10	8	9	7	2	317
Roads	3011124	Regional Bicycle Route Implementation	5.33	0	0	8	0	6	9	4	1,050
Storm Sewers	4071699	Annual - Preliminary Engineering	5.31	0	0	10	4	8	9	2	153
Storm Sewers	4071799	Annual - Preliminary Engineering	5.31	0	0	10	4	8	9	2	162
Roads	3011825	Hwy 5 - Hwy 6 to Hamilton St	5.24	0	15	8	8	9	7	2	2,284
Roads	3011822	Barton St at Gage Ave - Left Turn Lanes	5.16	0	0	8	0	10	7	2	475
Roads	3011773	Annual Traffic Controller Replacement (1997)	5.13	0	0	10	0	9	7	2	213
Roads	3011873	Annual Traffic Controller Replacement	5.13	0	0	10	0	9	7	2	1,695
Freeway	3111011	Design - Detailed Landscape Architecture	5.06	53	17	8	4	8	6	2	0
Freeway	3111070	Land Acquisition	5.06	53	17	8	4	8	6	2	1,441
Freeway	3111071	Land Maintenance	5.06	53	17	8	4	8	6	2	30
Freeway	3111114	Environmental Studies & Other Direct Project Costs	5.06	53	17	8	4	8	6	2	12
Freeway	3111612	Construction - Signs - MTO	5.06	53	17	8	4	8	6	2	0
Freeway	3111701	Construction - M/L Paving - Hwy 403 to Upper Wellington (CE610)	5.06	53	17	8	4	8	6	2	0

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DEVELOPMENT CO-ORDINATING COMMITTEE PROJECT RANKINGS

Program	Project	Project Description	Rating	S	ER	U	E	H	V	C	1998-2000 Net Cost
Freeway	3111702	Construction - M/L Paving - Upper Wellington to Dartnall (CN610/2 0,CE612)	5.06	53	17	8	4	8	6	2	0
Freeway	3111703	Construction - Stonechurch Rd @ Dartnall Rd (CN630)	5.06	53	17	8	4	8	6	2	0
Freeway	3111901	Construction - M/L Paving - Dartnall to Pritchard (CE810)	5.06	53	17	8	4	8	6	2	492
Waste Management	4031806	Annual - Recycling System - Rolling Carts	5.01	0	0	8	4	2	8	6	0
Roads	3011321	Golflinks and McNiven Intersection	5.00	0	0	8	0	8	9	2	1,224
Waste Management	4031802	Annual - Backyard Composting Program	4.97	10	0	8	6	2	7	6	0
Roads	3011693	Annual Streetscaping Program (1996)	4.94	0	0	4	0	0	8	8	71
Roads	3011793	Annual Streetscaping Program (1997)	4.94	0	0	4	0	0	8	8	100
Roads	3011872	Annual Traffic Construction Engineering Overhead	4.92	0	0	8	0	9	7	2	312
Roads	3031404	Stone Church Rd - Upper Wentworth to Upper Wellington	4.77	0	65	0	0	0	7	8	19
Roads	3011817	Annual Pedestrian Priority Signals & Traffic Signal Modernization	4.76	0	0	8	0	9	6	2	468
Roads	3011616	Rymal Rd - Springside to Upper Gage - Widening	4.75	0	72	8	4	6	7	2	193
DARTS	3201401	Vehicles	4.72	50	0	6	4	6	9	2	1,229
Roads	3011709	Annual Major Road Maintenance (1997)	4.68	0	0	8	0	8	7	2	122
Roads	3011808	Annual Minor Construction Program	4.68	0	0	8	0	8	7	2	883
Roads	3011809	Annual Major Road Maintenance	4.68	0	0	8	0	8	7	2	987
Roads	3011328	Barton St - Lake Ave to Grays Rd.	4.66	0	23	9	8	6	7	2	1,473
Travel Forecasting	3211012	Travel Demand Studies	4.54	75	0	4	4	0	7	6	15
Roads	3011631	Stone Church Rd - Upper Ottawa to Dartnall Rd	4.53	0	25	0	0	0	7	8	68
Roads	3011894	Contribution to Storm Sewers	4.52	0	78	8	0	2	7	4	36
Roads	3011021	Binbrook Rd/Whitechurch Rd - Hwy 6 to Hwy 56	4.51	0	0	10	4	6	7	2	535
Roads	3011704	Annual Railway Rehabilitation Program (1997)	4.51	0	0	10	4	6	7	2	26

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<u>Program</u>	<u>Project</u>	<u>Project Description</u>	<u>Rating</u>	<u>S</u>	<u>ER</u>	<u>U</u>	<u>E</u>	<u>H</u>	<u>V</u>	<u>C</u>	<u>1998-2000</u> <u>Net Cost</u>
Roads	3011802	Annual Bridge & Culvert Program	4.51	0	0	10	4	6	7	2	880
Roads	3011804	Annual Railway Rehabilitation Program	4.51	0	0	10	4	6	7	2	224
Roads	3011835	Stone Church Rd - west of Arbour Rd to east of Prichard Rd	4.39	0	31	8	0	6	7	2	521
Roads	3011922	Barton St - Fruitland Rd to east Limit of Industrial Park	4.39	0	31	8	0	6	7	2	43
Roads	3011834	South Mountain Arterial Transportation Plan/E.A.'s	4.38	0	30	8	0	6	7	2	132
Roads	3011828	Hwy 8 - DeWitt Rd to Fruitland Rd	4.20	0	0	8	0	6	7	2	964
Roads	3011833	Rymal Rd - Tracks to east of Dartnall	4.20	0	0	8	0	6	7	2	163
Storm Sewers	4071803	Catherine Street Combined Sewer Overflow	4.10	0	10	10	8	5	10	0	147
Waste Management	4031300	Waste Management Master Plan	3.93	0	0	8	0	2	7	4	38
Police	2101901	Project Constable - Computer Aided Dispatch	3.88	0	0	10	4	0	7	4	1,165
Storm Sewers	4072718	Tiffany - Phase 1 (Oversizing)	3.85	0	4	2	4	3	8	4	0
Storm Sewers	4072719	Highridge South - Phase 3 (Oversizing)	3.85	0	4	2	4	3	8	4	0
Roads	3011811	Annual Preservicing Program	3.82	0	63	10	0	2	7	2	118
HSR	3223001	Passenger Facilities	3.82	0	0	6	6	6	10	0	313
Waste Management	4031400	Comprehensive Municipal Pollution Prevention Program	3.78	0	0	4	4	2	8	4	22
Roads	3011837	Upper James - Stone Church to S. of Regina	3.74	0	0	8	0	8	7	0	192
Waste Management	4031815	Installation of Mufflers and Silencers at SWARU	3.67	0	0	8	0	3	9	2	27
Waste Management	4031811	Septic Tank Installation at the Kenora Transfer Station	3.62	0	0	8	4	3	8	2	21
Roads	3011653	Outstanding Land Expropriation	3.56	0	0	8	0	0	7	4	27
Roads	3041800	Traffic Operations	3.54	0	11	8	8	0	5	4	71
Storm Sewers	4071603	Greenhill Avenue Storage Treatment Basin (50%)	3.52	0	10	10	4	5	7	0	95
Roads	3011826	Hwy 53 - Trinity Church Rd. to 200m east of Swayze Rd.	3.47	0	48	10	8	0	7	2	388

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Program	Project	Project Description	Rating	S	ER	U	E	H	V	C	1998-2000 Net Cost
Storm Sewers	4071877	Annual - Oversizing	3.47	0	10	6	4	7	7	0	0
Roads	3011730	Downtown Transportation Study/Traffic Calming	3.44	0	0	4	0	6	10	0	4,400
Waste Management	4031706	Annual - Recycling System - Rolling Carts	3.38	0	0	8	4	2	8	2	63
Storm Sewers	4071624	Geographic Information System Interface	3.31	0	10	8	4	5	7	0	81
Corporate Services	1921200	Development Charge Studies	3.18	0	100	10	10	0	8	0	0
Roads	3011022	Hwy 56 - Binbrook Rd to Haldibrook Rd.	3.18	0	0	10	8	0	7	2	605
Roads	3011024	King St - Bay St to 160m west of Breadalbane	3.18	0	0	10	8	0	7	2	552
Roads	3011027	Oster Rd - South St to Governor's Rd	3.18	0	0	10	8	0	7	2	318
Roads	3011213	Ottawa St - Beach Rd to Main St	3.18	0	0	10	8	0	7	2	148
Roads	3011619	Sydenham Rd. - Bridge to Quarry Rd.	3.18	0	0	10	8	0	7	2	1,000
Roads	3011805	Annual Resurfacing Program	3.18	0	0	10	8	0	7	2	1,906
Roads	3011820	Upper Wentworth St - Fennell Ave to Queensdale Ave	3.18	0	0	10	8	0	7	2	408
Roads	3011823	Hwy 20 - King St. to Green Mountain Rd.	3.18	0	0	10	8	0	7	2	510
Roads	3011827	Hwy 56 - Guyatt Rd. to Binbrook Rd.	3.18	0	0	10	8	0	7	2	510
Roads	3011923	Hwy 52 - Hwy 53 to Governor's Rd	3.18	0	0	10	8	0	7	2	1,092
Roads	3011924	Hwy 56 - Hwy 53/20 to Guyatt Rd.	3.18	0	0	10	8	0	7	2	624
Roads	3011925	Hwy 8 - Millen to Jones	3.13	0	30	10	0	0	7	2	43
Roads	3011025	King St - Cochrane to Parkdale	3.06	0	0	10	4	0	7	2	849
Storm Sewers	4071718	District Yard	3.06	0	10	2	4	7	7	0	10
Roads	3011829	Hwy 8 - Donn Ave to Grays Rd.	2.97	0	0	8	8	0	7	2	273
Roads	3011895	Annual Miscellaneous Land Acquisition	2.97	0	0	8	8	0	7	2	265
Roads	3011797	Annual Engineering, Utilities & Land for Next Year (1997)	2.96	0	0	9	4	0	7	2	94

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<u>Program</u>	<u>Project</u>	<u>Project Description</u>	<u>Rating</u>	<u>S</u>	<u>ER</u>	<u>U</u>	<u>E</u>	<u>H</u>	<u>V</u>	<u>C</u>	<u>1998-2000</u> <u>Net Cost</u>
Roads	3011897	Annual Engineering, Utilities & Land for Next Year	2.96	0	0	9	4	0	7	2	307
Roads	3011830	Hwy 8 - Hillcrest Ave to Park Ave	2.95	0	0	10	0	0	7	2	1,146
Roads	3051001	Perimeter Road - Land Acquisition	2.89	0	0	8	0	2	10	0	900
Roads	3051901	Perimeter Road - Environmental Assessment	2.89	0	0	8	0	2	10	0	200
Industrial Land	8151202	Park Preparation	2.66	0	100	8	10	0	6	0	162
Roads	3011020	Beckett Dr - Amelia to Auchmar	2.64	0	0	10	0	0	5	2	318
Roads	3021808	James Mountain Rd - Inglewood to Gateview	2.64	0	0	10	0	0	5	2	1,525
Waste Management	4031006	Decommission - Gas Flare & Infra at Former Up Ottawa Landfill	2.18	0	0	2	0	2	5	2	110
HSR	3222001	Information Systems Maintenance	2.15	0	0	6	4	0	9	0	13
HSR	3224001	Buildings & Equipment	2.15	0	0	6	4	0	9	0	277
Roads	3011893	Annual Streetscaping Program	1.68	0	0	4	0	0	8	0	500
Travel Forecasting	3211904	Data Management Group	1.63	0	0	4	4	0	7	0	28
Planning -	4021802	Vision 2020 Progress Team	1.58	0	0	0	0	0	10	0	0
Planning -	4021801	District Heating Feasibility Study	1.43	0	0	0	6	0	8	0	0
Library	7501502	Furnishings - Lynden (New Facility)	1.31	0	0	2	0	0	7	0	34
Library	7501602	Furnishings - Saltfleet (New Facility)	1.31	0	0	2	0	0	7	0	319
Library	7501701	Furnishings - Ancaster (New Facility)	1.31	0	0	2	0	0	7	0	113

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Program	Project	Project Description	Rating	S	ER	U	E	H	V	C	1998-2000 Net Cost
Sanitary Sewers	4061521	Purchase Easements	8.55	0	10	10	8	7	10	10	42.5
Sanitary Sewers	4061521	Purchase Easements	8.55	0	10	10	8	7	10	10	33
Waterworks	4051532	King William - Catherine to Wellington	8.47	0	10	10	4	10	10	8	19
Waterworks	4051629	Fuel Depot Upgrade	8.42	0	10	10	8	10	9	8	26
Sanitary Sewers	4061715	Adair - Queenston to 123m North of Main	8.42	0	10	10	8	10	9	8	28
Waterworks	4051730	Glennie - Main to Dunsmore	8.31	0	10	10	4	10	9	8	10
Waterworks	4051744	Rainbow - Glen Echo to Secord	8.31	0	10	10	4	10	9	8	19
Waterworks	4051740	Crestview - Colleen Cres to Brookview Ct	8.18	0	10	10	8	9	9	8	41
Waterworks	4051620	Augusta St - James St to Hughson St - w/m replacement	8.15	0	10	10	4	10	8	8	4
Sanitary Sewers	4061019	M.I.S.A. Demo Projects 1 & 2	8.06	5	10	6	4	7	10	10	0
Waterworks	4051722	Hughson - King William to Main	7.97	0	10	10	8	8	10	8	17
Waterworks	4051726	King - James to Bay	7.97	0	10	10	8	8	10	8	8
Waterworks	4051627	Purchase Easements	7.95	0	10	10	8	6	7	10	32.5
Waterworks	4051627	Purchase Easement over Existing Watermains	7.95	0	10	10	8	6	7	10	5
Sanitary Sewers	4061010	Iona Sanitary Trunk Sewer	7.86	0	10	8	4	9	9	8	16
Waterworks	4051149	Ottawa - Main to CNR Tracks (w/m replace & intersection repipe)	7.82	0	10	10	8	8	9	8	55.6
Waterworks	4051609	Arkedun Dr - John St to Jolly Cut	7.82	0	10	10	8	8	9	8	28
Waterworks	4051625	Britannia - Normanhurst Ave to Ivon Ave - w/m replacement	7.82	0	10	10	8	8	9	8	10
Waterworks	4051626	Hwy #8 - Fifty Rd to Regional Boundary - w/m replacement	7.82	0	10	10	8	8	9	8	17
Waterworks	4051630	Dundurn St - Aberdeen Ave to Stanley Ave	7.82	0	10	10	8	8	9	8	9
Waterworks	4051634	Napier St - Hatt to MacNab/MacNab - Napier to Brook	7.82	0	10	10	8	8	9	8	18
Waterworks	4051636	Cameron - Wilson to St. Margaret's	7.82	0	10	10	8	8	9	8	22

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<u>Program</u>	<u>Project</u>	<u>Project Description</u>	<u>Rating</u>	<u>S</u>	<u>ER</u>	<u>U</u>	<u>E</u>	<u>H</u>	<u>V</u>	<u>C</u>	<u>1998-2000</u> <u>Net Cost</u>
Waterworks	4051640	Mapledene Dr, Brooks Dr, Robina Rd	7.82	0	10	10	8	8	9	8	15
Waterworks	4051649	Woodworth Dr and Elgin Pl	7.82	0	10	10	8	8	9	8	4
Waterworks	4051661	Delsey - Cameron to Lowe	7.82	0	10	10	8	8	9	8	5
Waterworks	4051713	Bromley - E 16th to Seven Oaks & Holt - Bromley to Sheridan	7.82	0	10	10	8	8	9	8	225
Waterworks	4051714	Morley - Parkdale to W/W Pipeline R.O.W.	7.82	0	10	10	8	8	9	8	220
Waterworks	4051715	Wise - Grenadier to Grenadier	7.82	0	10	10	8	8	9	8	52
Waterworks	4051720	East 17th - Fennell to Howe	7.82	0	10	10	8	8	9	8	10
Waterworks	4051728	Toby Cres - Broker to Upper Kenilworth	7.82	0	10	10	8	8	9	8	56
Waterworks	4051729	Mohawk Rd - 55m W of Wilson to McNiven	7.82	0	10	10	8	8	9	8	336
Waterworks	4051731	East 37th - Concession to North End	7.82	0	10	10	8	8	9	8	70
Waterworks	4051732	Argyle - Ottawa to Frederick	7.82	0	10	10	8	8	9	8	62
Waterworks	4051733	Cumberland - Wentworth to Sanford	7.82	0	10	10	8	8	9	8	33
Waterworks	4051734	Mountain - Lake to Gemma	7.82	0	10	10	8	8	9	8	140
Waterworks	4051736	Old Ancaster Rd - Robinhood Dr to Pleasant Ave	7.82	0	10	10	8	8	9	8	50
Waterworks	4051739	Melville - Cross to Sydenham	7.82	0	10	10	8	8	9	8	31
Waterworks	4051742	Brucevale - Rendell to High	7.82	0	10	10	8	8	9	8	54
Waterworks	4051747	Selkirk - Main to Normanhurst	7.82	0	10	10	8	8	9	8	4
Waterworks	4051748	Hwy #8 - Winona to Fifty Rd	7.82	0	10	10	8	8	9	8	379
Waterworks	4051749	Barton - McNeilly to Winona	7.82	0	10	10	8	8	9	8	560
Waterworks	4051752	East 38th - Mohawk to Macassa	7.82	0	10	10	8	8	9	8	193
Waterworks	4051753	Corman - Hwy #8 to King	7.82	0	10	10	8	8	9	8	259
Waterworks	4051762	Old Ancaster Rd - Pleasant to Pumping Stn WH-12	7.82	0	10	10	8	8	9	8	27

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<u>Program</u>	<u>Project</u>	<u>Project Description</u>	<u>Rating</u>	<u>S</u>	<u>ER</u>	<u>U</u>	<u>E</u>	<u>H</u>	<u>V</u>	<u>C</u>	<u>1998-2000 Net Cost</u>
Waterworks	4051764	Stinson - Victoria to Wellington	7.82	0	10	10	8	8	9	8	115
Waterworks	4051766	West 31st - Scenic to Sanatorium	7.82	0	10	10	8	8	9	8	25
Waterworks	4051770	Shaw St - Victoria N to Wentworth	7.82	0	10	10	8	8	9	8	274
Waterworks	4051999	Closed Projects	7.82	0	10	10	8	8	9	8	56
Sanitary Sewers	4061716	Dundas - West to Thorpe & Thorpe - Dundas to Cootes	7.82	0	10	10	8	8	9	8	26
Sanitary Sewers	4061739	Melville - Cross to Sydenham	7.82	0	10	10	8	8	9	8	49
Sanitary Sewers	4061999	Sanitary Program - Closed Projects	7.82	0	10	10	8	8	9	8	51
Sanitary Sewers	4061880	Annual - Plant Allocation	7.80	0	0	10	8	9	7	8	11,920
Sanitary Sewers	4067501	WWTP - South Secondary Clarifier Upgrade	7.80	0	0	10	8	9	7	8	1,328
Sanitary Sewers	4067506	WWTP - Rehab Gas System	7.80	0	0	10	8	9	7	8	87
Sanitary Sewers	4067507	WWTP - Expansion of Primary Clarifiers	7.80	0	0	10	8	9	7	8	432
Sanitary Sewers	4067508	WWTP - Preliminary Treatment - Replace Bar Screens	7.80	0	0	10	8	9	7	8	156
Sanitary Sewers	4067509	Dundas WWTP - Clarifier Refurbishment	7.80	0	0	10	8	9	7	8	13
Sanitary Sewers	4067510	Plant Operational Manuals	7.80	0	0	10	8	9	7	8	26
Sanitary Sewers	4067601	WWTP - Pumphouse Switchgear & Drives	7.80	0	0	10	8	9	7	8	3,017
Sanitary Sewers	4067603	WWTP - Roof Repairs	7.80	0	0	10	8	9	7	8	201
Sanitary Sewers	4067604	WWTP - Existing Primary Clarifier Repairs	7.80	0	0	10	8	9	7	8	332
Sanitary Sewers	4067605	WWTP - Grit removal/channel renovations	7.80	0	0	10	8	9	7	8	254
Sanitary Sewers	4067607	WWTP - SCADA Optimization & Computer Controls	7.80	0	0	10	8	9	7	8	1,188
Sanitary Sewers	4067701	Annual - Operational Improvements	7.80	0	0	10	8	9	7	8	86
Sanitary Sewers	4067702	WAS Thickening	7.80	0	0	10	8	9	7	8	4,090
Sanitary Sewers	4067703	Aeration Retrofit	7.80	0	0	10	8	9	7	8	4,283

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Program	Project	Project Description	Rating	S	ER	U	E	H	V	C	1998-2000 Net Cost
Sanitary Sewers	4067704	Plant Equipment Upgrades	7.80	0	0	10	8	9	7	8	380
Sanitary Sewers	4067705	Refurbish Sluice Gate Controls & Unit	7.80	0	0	10	8	9	7	8	120
Sanitary Sewers	4067706	Replace 7-4160V Breakers in Diesel Building	7.80	0	0	10	8	9	7	8	160
Sanitary Sewers	4067707	Secondary Clarifier Evaluation - Study	7.80	0	0	10	8	9	7	8	34
Sanitary Sewers	4067708	Dundas Operational Improvements	7.80	0	0	10	8	9	7	8	238
Sanitary Sewers	4067709	Waterdown Operational Improvements	7.80	0	0	10	8	9	7	8	95
Sanitary Sewers	4067710	Dundas Treatment Optimization	7.80	0	0	10	8	9	7	8	120
Waterworks	4051952	Bond - King to Park	7.76	0	10	10	8	10	10	6	47
Waterworks	4051702	Annual - Rehabilitation	7.70	0	10	10	4	8	9	8	329
Sanitary Sewers	4061712	East 8th - Redirection of Flows from Fennell to Interceptor	7.70	0	10	10	4	8	9	8	3
Sanitary Sewers	4061728	Annual - Rehabilitation	7.70	0	10	10	4	8	9	8	689
Waterworks	4051054	King William - James to Catharine	7.65	0	10	10	4	10	10	6	211
Waterworks	4051483	Ferguson Ave - King St to CNR Rail-line	7.65	0	10	10	4	10	10	6	58
Waterworks	4051866	Harriet St from Hess to east end	7.65	0	10	10	4	10	10	6	51
Waterworks	4051040	SUPPLEMENTARY - Seminole - Wilson to Council	7.60	0	10	10	8	10	9	6	254
Waterworks	4051057	Lloyminn - Terrance to the existing 150mm Reducer	7.60	0	10	10	8	10	9	6	183
Waterworks	4051058	Beverly - Lloyminn to end & Blair - Lloyminn to end	7.60	0	10	10	8	10	9	6	140
Waterworks	4051059	Colleen - Lloyminn to Crestview & Oakhill - Colleen to end	7.60	0	10	10	8	10	9	6	226
Waterworks	4051735	Crockett - E33rd to E36th & E38th to E39th	7.60	0	10	10	8	10	9	6	190
Waterworks	4051844	Alma - West End to Queen	7.60	0	10	10	8	10	9	6	167
Waterworks	4051941	SUPPLEMENTARY - Elcho, Rosedene, Wycliffe, Searle	7.60	0	10	10	8	10	9	6	451
Waterworks	4051959	Knyvet, Kelso & Highcliffe	7.60	0	10	10	8	10	9	6	399

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Waterworks	4051962	Hunter - York to Concord	7.60	0	10	10	8	10	9	6	298
Sanitary Sewers	4061527	Cold Water Creek Tr - Brentwood Drive to Old Ancaster Road	7.59	0	10	5	8	10	7	8	248
Waterworks	4051608	Annual - Minor Improvements/Rehabilitation	7.57	0	10	10	8	7	9	8	31
Sanitary Sewers	4061514	Burlington St - Wellington to 110m Westerly	7.55	0	10	10	4	8	8	8	5
Waterworks	4053523	L1 - Old Village Area, Freelon - Hwy 6 RR 97 West Brock Rd etc	7.54	0	10	8	0	8	10	8	14
Sanitary Sewers	4061825	Western Sanitary Interceptor Rehabilitation	7.52	0	10	10	8	9	10	6	5,251
Waterworks	4051048	Huxley - King to Monterey & Monterey - Huxley to Tuxedo	7.49	0	10	10	4	10	9	6	205
Waterworks	4051056	Lloyminn - Jerseyville to Terrance & Terrance - Lloyminn to Chatter son	7.49	0	10	10	4	10	9	6	485
Waterworks	4051082	King - Strathcona to Christ the King Cathedral	7.49	0	10	10	4	10	9	6	218
Waterworks	4051812	SUPPLEMENTARY - Sumach - Melvin to south end	7.49	0	10	10	4	10	9	6	160
Waterworks	4051815	Clifford - Ainsley to South End	7.49	0	10	10	4	10	9	6	113
Waterworks	4051818	Murray - James to Park	7.49	0	10	10	4	10	9	6	138
Waterworks	4051825	Maplewood - Blake to Prospect	7.49	0	10	10	4	10	9	6	436
Waterworks	4051838	Hillyard, Munroe & Wentworth - Brant to Munroe to Francis	7.49	0	10	10	4	10	9	6	220
Waterworks	4051839	Eastwood - Melvin to south end & Heath - Eastwood to Sumach	7.49	0	10	10	4	10	9	6	155
Waterworks	4051851	Armstrong - Glengrove to Hayes	7.49	0	10	10	4	10	9	6	323
Waterworks	4051854	Hayes - Armstrong to Bingham	7.49	0	10	10	4	10	9	6	103
Waterworks	4051863	Brookside - Lodor to end & Lorne - Lodor to end	7.49	0	10	10	4	10	9	6	103
Waterworks	4051940	Tuxedo Ave S. - Main to Monterey	7.49	0	10	10	4	10	9	6	341
Waterworks	4051946	Glen Echo - Rainbow to Secord	7.49	0	10	10	4	10	9	6	236
Waterworks	4051947	Dundum S - Aberdeen to Hillcrest	7.49	0	10	10	4	10	9	6	306
Waterworks	4051948	SUPPLEMENTARY - Balsam - Cannon to Beechwood	7.49	0	10	10	4	10	9	6	236

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Waterworks	4051967	Albert - Melville to Victoria	7.49	0	10	10	4	10	9	6	67
Waterworks	4051708	Annual - Minor Improvements	7.39	0	10	10	4	8	7	8	106
Waterworks	4051880	Annual - Plant Allocation	7.39	0	10	10	4	8	7	8	1,050
Waterworks	4051881	Annual - Outstation Allocation	7.39	0	10	10	4	8	7	8	1,319
Sanitary Sewers	4061601	Annual - Minor Improvements/Rehabilitation	7.39	0	10	10	4	8	7	8	58
Sanitary Sewers	4061770	Shaw St - Victoria N to Wentworth	7.39	0	10	10	4	8	7	8	90
Sanitary Sewers	4061608	Annual - Asbestos Removal Program	7.39	0	10	6	0	9	8	8	2
Waterworks	4051495	Algonquin & Hwy #5 - Thomcrest to Hwy #6 - trunk w/m	7.31	0	10	8	6	7	9	8	289
Sanitary Sewers	4061306	Hwy #5 - W of Dennis to Dennis and to Hwy #6	7.26	0	10	8	4	7	9	8	11
Sanitary Sewers	4063331	LI - Hwy#6 - Hamilton South Limit to Twenty Rd	7.26	0	10	8	4	7	9	8	179
Sanitary Sewers	4063431	LI - Homestead/Strathearn/Marion/Aberdeen	7.26	0	10	8	4	7	9	8	22
Sanitary Sewers	4063710	MA - Allison Neighbourhood Sanitary Sewers	7.26	0	10	8	4	7	9	8	0
Sanitary Sewers	4061462	Hamilton Harbour Water Quality Improvements	7.15	0	10	10	4	3	8	10	35
Sanitary Sewers	4061724	Mountain Ave/Gemma Court - Sewer Rehab	7.15	0	10	10	4	7	7	8	213
Sanitary Sewers	4067554	Pumping Station S-D1 Sleepy Hollow - Refurbish	7.08	0	0	10	8	6	7	8	21
Sanitary Sewers	4067651	Pumping Station S-W1 Elgin St - Refurbish	7.08	0	0	10	8	6	7	8	105
Sanitary Sewers	4067752	SH-02 West 31st - Replace Pumps & Switchgears	7.08	0	0	10	8	6	7	8	100
Sanitary Sewers	4067754	PCB Disposal	7.08	0	0	10	8	6	7	8	253
Sanitary Sewers	4067755	Roof Repairs	7.08	0	0	10	8	6	7	8	407
Sanitary Sewers	4067756	SD-7 McMaster - Replace Pumps & Controls	7.08	0	0	10	8	6	7	8	9
Sanitary Sewers	4067757	SD-10 Bridlewood - Replace Controls	7.08	0	0	10	8	6	7	8	62
Sanitary Sewers	4067758	SH-03 Strachan - Replace Pumps & Heater	7.08	0	0	10	8	6	7	8	102

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											Net Cost	
Sanitary Sewers	4061137	Computer Based Real-Time Control of Sewers (30%)	7.05	0	10	10	8	5	8	8	159	
Waterworks	4051042	Wilson - Halson to Fiddlers Green	7.05	0	10	10	4	8	10	6	551	
Waterworks	4051645	SUPP - Chegwin/McMurray/Hope	7.00	0	10	10	8	8	9	6	146	
Waterworks	4051916	Winona - Barton to Hwy #8	7.00	0	10	10	8	8	9	6	217	
Waterworks	4051957	Algonguin - Mohawk to Oneida	7.00	0	10	10	8	8	9	6	194	
Sanitary Sewers	4067881	Annual - Outstation Allocation	6.92	0	10	10	8	7	10	6	1,200	
Sanitary Sewers	4061720	Ferguson Avenue Sewer Rehabilitation	6.89	0	10	10	8	5	7	8	334	
Sanitary Sewers	4061024	Mill N - Church to Hwy #5 & Church - Mill N to Victoria	6.89	0	10	10	4	8	9	6	212	
Sanitary Sewers	4061830	Parkside - Cayley to Alma & Alma - Sydenham to Cross	6.89	0	10	10	4	8	9	6	202	
Sanitary Sewers	4061870	Annual - Minor Improvements	6.89	0	10	10	4	8	9	6	2,850	
Sanitary Sewers	4061871	Annual - Rehabilitation	6.89	0	10	10	4	8	9	6	3,051	
Sanitary Sewers	4061872	Annual - Detailed Engineering	6.89	0	10	10	4	8	9	6	252	
Sanitary Sewers	4061874	Annual - Contingency for Unscheduled Works	6.89	0	10	10	4	8	9	6	402	
Sanitary Sewers	4061899	Annual - Preliminary Engineering	6.89	0	10	10	4	8	9	6	835	
Sanitary Sewers	4061938	Albert - Alma to Melville & Victoria - Albert to Market	6.89	0	10	10	4	8	9	6	242	
Waterworks	4051124	Hwy # 5 to Rosecliffe Place, Waterdown, looping - w/m install	6.83	0	10	8	0	7	7	8	3	
Sanitary Sewers	4061937	SUPP - Hatt St. Sewershed - John to Head	6.80	0	10	10	4	7	10	6	267	
Sanitary Sewers	4061823	Alma - Sydenham to Westerly End	6.76	0	10	10	8	7	9	6	269	
Sanitary Sewers	4061827	University Gardens Siphon - Dunning to Hunter	6.76	0	10	10	8	7	9	6	471	
Sanitary Sewers	4061905	Annual - Municipal Act Program	6.68	0	10	8	4	8	9	6	536	
Sanitary Sewers	4061828	Gray, Green & Dewitt Sewersheds - North of QEW	6.65	0	10	10	4	7	9	6	1,345	
Sanitary Sewers	4061939	Ferguson - Burlington to Macauley	6.65	0	10	10	4	7	9	6	435	

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Sanitary Sewers	4061940	Hunter - York to Dundas WWTP	6.65	0	10	10	4	7	9	6	347
Sanitary Sewers	4061875	Annual - Regional Laboratory Improvements	6.60	0	10	9	6	7	9	6	539
Sanitary Sewers	4061824	MOEE CSO Guideline Review	6.55	0	10	10	8	5	10	6	109
Sanitary Sewers	4061818	James Mountain Rd - 55m North to 90m S of Aberdeen	6.44	0	10	8	4	7	9	6	86
Sanitary Sewers	4061831	Centennial Parkway - Queenston to Neil	6.44	0	10	8	4	7	9	6	120
Sanitary Sewers	4063362	MA - Glover Access Rd - S Service to Glover	6.44	0	10	8	4	7	9	6	0
Sanitary Sewers	4063665	MA - Trillium & Lewis to South Service	6.44	0	10	8	4	7	9	6	0
Sanitary Sewers	4063764	MA - Seabreeze - Glover to McNeilly & McNeilly - Seabreeze to S S service	6.44	0	10	8	4	7	9	6	0
Sanitary Sewers	4063843	MA - Miles - 265m S of Rymal to 314m S	6.44	0	10	8	4	7	9	6	9
Waterworks	4051503	Subdivision Non-Recoverable	6.37	0	10	2	0	7	8	8	7
Sanitary Sewers	4061738	Mohawk Rd - Wilson to Lowden	6.33	0	10	10	4	7	7	6	446
Sanitary Sewers	4061713	Dundas/Flam. WWT Capacity Expansion (Design)	6.29	0	10	8	6	5	10	6	599
Sanitary Sewers	4063810	MA - Saveryn - Twenty to Powerline &	6.08	0	10	8	4	5	9	6	147
Waterworks	4051965	Victoria - Albert to Market/Albert - Victoria to Alma	5.97	0	10	10	8	10	9	2	244
Sanitary Sewers	4061829	Inflow and Infiltration Investigations	5.84	0	10	10	4	3	10	6	738
Waterworks	4051505	Water Services Replacement/Maintenance (1995 Annual)	5.78	0	10	10	0	0	9	8	60
Waterworks	4051043	Stonechurch - Upper Paradise to Omni	5.76	10	10	8	10	0	8	8	412
Waterworks	4051936	Hwy #6 - Twenty to Dickenson	5.76	10	10	8	10	0	8	8	1,402
Waterworks	4051480	Garth St - Rymal to 20 Rd Watermain	5.48	0	10	8	8	0	7	8	71
Waterworks	4051737	Garth - Stonechurch to Rymal Trunk (H-N)	5.44	10	10	8	10	0	6	8	66
Waterworks	4051738	Hwy #6 - Dickenson to Airport - (H-N)	5.44	10	10	8	10	0	6	8	1,850
Waterworks	4051055	Hughson - Main to Hunter	5.41	0	10	10	4	8	10	2	76

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Waterworks	4051982	Mountain Ave S. - King to Maple	5.41	0	10	10	4	8	10	2	127
Waterworks	4051039	East 24th - Fennell to Franklin	5.37	0	10	10	8	8	9	2	322
Waterworks	4051750	Sulphur Springs - Wilson to Mansfield	5.37	0	10	10	8	8	9	2	219
Waterworks	4051852	Agincourt - Beach to McNulty	5.37	0	10	10	8	8	9	2	120
Waterworks	4051860	East 44th - Mohawk to Fennell	5.37	0	10	10	8	8	9	2	614
Waterworks	4051861	West 32nd - Scenic to Sanatorium	5.37	0	10	10	8	8	9	2	320
Waterworks	4051862	West 33rd - Scenic to Sanatorium	5.37	0	10	10	8	8	9	2	410
Waterworks	4051867	Upper Paradise - Sanatorium to Elmwood	5.37	0	10	10	8	8	9	2	103
Waterworks	4051954	West 1st - McElroy to Wembley	5.37	0	10	10	8	8	9	2	102
Waterworks	4051799	Annual - Preliminary Engineering	5.31	0	0	10	4	8	9	2	203
Sanitary Sewers	4061699	Annual - Preliminary Engineering	5.31	0	0	10	4	8	9	2	31
Sanitary Sewers	4061707	Annual - Detailed Engineering	5.31	0	0	10	4	8	9	2	67
Sanitary Sewers	4061799	Annual - Preliminary Engineering	5.31	0	0	10	4	8	9	2	256
Waterworks	4051046	Mountain Brow - Margate to Broker	5.25	0	10	10	4	8	9	2	352
Waterworks	4051835	East 31st - Crockett to Munn	5.25	0	10	10	4	8	9	2	160
Waterworks	4051845	Park - Market to Napier	5.25	0	10	10	4	8	9	2	116
Waterworks	4051864	Clarendon - 80m W of Brookdale to Hillcrest	5.25	0	10	10	4	8	9	2	131
Waterworks	4051955	East 25th - Concession to Crockett	5.25	0	10	10	4	8	9	2	327
Waterworks	4051958	Seneca - Oneida to end	5.25	0	10	10	4	8	9	2	315
Waterworks	4051961	East 42nd - Sunninghill to Bruceale	5.25	0	10	10	4	8	9	2	320
Waterworks	4051767	Glengrove - Reid to Armstrong	5.21	0	10	10	8	8	8	2	12
Waterworks	4051745	EMS 14,000 Certification - Consultant	5.05	0	10	6	0	0	7	8	49

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<u>Program</u>	<u>Project</u>	<u>Project Description</u>	<u>Rating</u>	<u>S</u>	<u>ER</u>	<u>U</u>	<u>E</u>	<u>H</u>	<u>V</u>	<u>C</u>	<u>1998-2000 Net Cost</u>
Sanitary Sewers	4061729	EMS - 14,000 Certification - Consultant	5.05	0	10	6	0	0	7	8	70
Sanitary Sewers	4061919	Sterling - Whitton to approx. 130m Westerly	5.01	0	10	10	4	7	9	2	140
Sanitary Sewers	4061701	Annual - Minor Improvements	5.00	0	0	10	4	8	7	2	20
Sanitary Sewers	4061826	Hamilton Downtown Core - Infrastructure Coordination	4.99	0	0	10	4	6	10	2	367
Sanitary Sewers	4061936	Hopkins (n leg) - York to Ernest	4.81	0	10	8	4	7	9	2	0
Sanitary Sewers	4061710	Annual - Regional Laboratory Improvements	4.78	0	0	9	6	6	9	2	8
Sanitary Sewers	4061876	Annual - Overflow Alarms	4.65	0	10	10	4	5	9	2	156
Sanitary Sewers	4061730	Overflow Alarms	4.63	0	10	6	0	5	7	4	50
Waterworks	4051858	Infrastructure Coordination	4.60	0	10	10	4	8	10	0	996
Waterworks	4051052	Red Oak - Deerpark to Margaret	4.55	0	10	10	8	8	9	0	334
Waterworks	4051063	Lower Lion's Club - New w/m to approx. 150m West	4.55	0	10	10	8	8	9	0	101
Waterworks	4051066	Norwich - Hwy #8 to Crompton Way	4.55	0	10	10	8	8	9	0	65
Waterworks	4051067	Warwick - Hwy #8 to Crompton Way	4.55	0	10	10	8	8	9	0	68
Waterworks	4051068	Chester - Hwy #8 to Federal to Crompton Way	4.55	0	10	10	8	8	9	0	67
Waterworks	4051069	Blenheim - Hwy #8 to Federal, Federal to Britannia	4.55	0	10	10	8	8	9	0	65
Waterworks	4051083	Upper James - Stonechurch to Rymal	4.55	0	10	10	8	8	9	0	592
Waterworks	4051604	Annual - Detailed Engineering	4.55	0	10	10	8	8	9	0	14
Waterworks	4051704	Annual - Detailed Engineering	4.55	0	10	10	8	8	9	0	53
Waterworks	4051822	Clarendon - Fennell to South Bend	4.55	0	10	10	8	8	9	0	368
Waterworks	4051824	McNeilly - Barton to Highway #8	4.55	0	10	10	8	8	9	0	369
Waterworks	4051832	MacNab - Market to Napier	4.55	0	10	10	8	8	9	0	128
Waterworks	4051833	Barton - Winona to Fifty Rd	4.55	0	10	10	8	8	9	0	379

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Waterworks	4051834	Martin - Lawrence to Hixon	4.55	0	10	10	8	8	9	0	172
Waterworks	4051836	Kings Forest - Broker to Nova	4.55	0	10	10	8	8	9	0	221
Waterworks	4051843	Bay - Herkimer to Inglewood & Inglewood - Bay to Undercliffe	4.55	0	10	10	8	8	9	0	277
Waterworks	4051853	Heather - Pottruff to Sunrise	4.55	0	10	10	8	8	9	0	190
Waterworks	4051868	Walnut - King William to Main	4.55	0	10	10	8	8	9	0	142
Waterworks	4051872	Annual - Detailed Engineering	4.55	0	10	10	8	8	9	0	386
Waterworks	4051912	Winona Park - Winona to west end	4.55	0	10	10	8	8	9	0	315
Waterworks	4051944	Winona - Barton to South Service Ramp	4.55	0	10	10	8	8	9	0	320
Waterworks	4051960	Shelby - Britannia to Barton & Melvin - Shelby to Normanhurst	4.55	0	10	10	8	8	9	0	215
Waterworks	4051963	SUPPLEMENTARY - Delevan Cres. - Seven Oaks to Seven Oaks	4.55	0	10	10	8	8	9	0	131
Waterworks	4051968	Seabreeze - Glover to McNeilly	4.55	0	10	10	8	8	9	0	392
Waterworks	4051974	Annual - Contingency for Unscheduled Works	4.55	0	10	10	8	8	9	0	3,291
Waterworks	4051060	Garden - Fiddler's Green to approx. 200m E	4.44	0	10	10	4	8	9	0	70
Waterworks	4051061	Miller - Garden to Anson	4.44	0	10	10	4	8	9	0	285
Waterworks	4051062	Rose Lawn - Anson to Miller	4.44	0	10	10	4	8	9	0	156
Waterworks	4051064	Roxborough/Crompton Way - w/m install/repair	4.44	0	10	10	4	8	9	0	98
Waterworks	4051540	Lincoln - Federal to Compton Way	4.44	0	10	10	4	8	9	0	154
Waterworks	4051819	Fernwood - Thelma to Castlefield	4.44	0	10	10	4	8	9	0	116
Waterworks	4051820	Castlefield - House #39 to South End	4.44	0	10	10	4	8	9	0	331
Waterworks	4051827	Greenwood - 90m South of Fernwood to south end	4.44	0	10	10	4	8	9	0	168
Waterworks	4051850	Waterworks Pipeline & Surge Suppressor Valve Replacement	4.44	0	10	10	4	8	9	0	954
Waterworks	4051865	Brookdale - Lodor to Clarendon & Hillcrest - approx. 54m E of Clare ndon to S end	4.44	0	10	10	4	8	9	0	187

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Waterworks	4051870	Annual - Minor Improvements	4.44	0	10	10	4	8	9	0	646
Waterworks	4051871	Annual - Rehabilitation	4.44	0	10	10	4	8	9	0	5,667
Waterworks	4051911	SUPPLEMENTARY - Hester - Manning to Upper Wellington	4.44	0	10	10	4	8	9	0	177
Waterworks	4051949	Oneida - Hiawatha to Tomahawk	4.44	0	10	10	4	8	9	0	341
Waterworks	4051956	Iroquois - Algonquin to Seneca	4.44	0	10	10	4	8	9	0	410
Waterworks	4051964	SUPPLEMENTARY - Edith - Broker to Nova	4.44	0	10	10	4	8	9	0	278
Waterworks	4051966	SUPPLEMENTARY - Beechwood - Sherman to Lottridge	4.44	0	10	10	4	8	9	0	300
Sanitary Sewers	4061714	Rosanne/Palmer/Diane Ct - Intersections	4.28	0	10	10	0	3	6	4	40
Sanitary Sewers	4061873	Annual - Field Data Hardware	4.19	0	10	2	4	7	9	2	158
Waterworks	4057503	Plant Operational Manuals	4.18	0	0	10	4	8	7	0	9
Waterworks	4057554	Freelton Elevated Reservoir	4.18	0	0	10	4	8	7	0	63
Waterworks	4057555	Outstation - Operational Improvements	4.18	0	0	10	4	8	7	0	157
Waterworks	4057601	Woodward WWTP - Roof and Masonary Repairs	4.18	0	0	10	4	8	7	0	344
Waterworks	4057602	Woodward WWTP - Filter Building	4.18	0	0	10	4	8	7	0	124
Waterworks	4057701	Low Lift Pumping Station	4.18	0	0	10	4	8	7	0	220
Waterworks	4057702	Refurbish High Lift Pumps	4.18	0	0	10	4	8	7	0	337
Waterworks	4057751	PCB Disposal	4.18	0	0	10	4	8	7	0	253
Waterworks	4057752	Roof Repairs	4.18	0	0	10	4	8	7	0	336
Waterworks	4057754	WH-12A Hwy 99 - Replace Pumps & Valves	4.18	0	0	10	4	8	7	0	30
Waterworks	4057755	WH-6A - Refurbish Station	4.18	0	0	10	4	8	7	0	220
Waterworks	4057756	WH-12 South St - Replace Pumps & Install Controls	4.18	0	0	10	4	8	7	0	40
Sanitary Sewers	4061804	Catharine St - Combined Sewer Overflow Tank	4.10	0	10	10	8	5	10	0	406

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Waterworks	4051699	Annual - Preliminary Engineering	4.03	0	10	6	4	8	9	0	320
Waterworks	4051899	Annual - Preliminary Engineering	4.03	0	10	6	4	8	9	0	323
Waterworks	4051969	Lewis Rd/North Service/Campview	3.99	0	10	8	4	7	9	0	163
Sanitary Sewers	4061833	MA - West 5th - 40m N of Rymal to 130m S of Stonechurch	3.96	0	10	8	0	8	8	0	154
Waterworks	4052715	Dalma Gardens (SC) - Oversizing	3.85	0	4	2	4	3	8	4	0
Sanitary Sewers	4061603	Greenhill Avenue Storage Treatment Basin (50%)	3.83	0	10	10	4	5	9	0	96
Waterworks	4051939	Olympic - King to n/leg Hopkins	3.83	0	10	8	4	7	8	0	923
Waterworks	4051849	Pumping Station W-H16 - new pump & controls	3.72	0	10	10	4	7	6	0	197
Waterworks	4051847	Barton - McNeilly to Winona - Trunk (DC)	3.51	0	10	6	0	7	8	0	440
Waterworks	4051848	Barton - Winona to Fifty - Trunk (DC)	3.51	0	10	6	0	7	8	0	200
Waterworks	4051877	Annual - Oversizing	3.47	0	10	6	4	7	7	0	0
Sanitary Sewers	4061832	Annual - Oversizing	3.47	0	10	6	4	7	7	0	0
Sanitary Sewers	4061708	Annual - Field Data Hardware	3.38	0	0	2	4	6	5	2	50
Sanitary Sewers	4061624	Geographic Information System Interface	3.31	0	10	8	4	5	7	0	74
Waterworks	4051718	District Yard	3.06	0	10	2	4	7	7	0	14
Sanitary Sewers	4061722	District Yard	3.06	0	10	2	4	7	7	0	31
Waterworks	4051859	King - Mary to Wellington	2.78	0	10	10	4	0	10	0	333
Waterworks	4051856	Herbert & Thomas Courts - Lakeview to south end	2.74	0	10	10	8	0	9	0	97
Waterworks	4051857	James Mountain - Aberdeen to Inglewood	2.62	0	10	10	4	0	9	0	72
Waterworks	4051741	Pritchard Rd Crossing of East/West Freeway	2.32	0	10	8	6	0	8	0	31
Waterworks	4051065	Annual - Municipal Act Program	2.15	0	10	8	0	0	8	0	53
Waterworks	4052716	Meadowlands of Ancaster - Phase 3	1.92	0	0	2	0	3	7	0	0

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<u>Program</u>	<u>Project</u>	<u>Project Description</u>	<u>Rating</u>	<u>S</u>	<u>ER</u>	<u>U</u>	<u>E</u>	<u>H</u>	<u>V</u>	<u>C</u>	<u>1998-2000 Net Cost</u>
Waterworks	4051873	Annual - Field Data Hardware	1.17	0	10	2	4	0	5	0	81

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SUMMARY OF GROSS CAPITAL EXPENDITURE BY PROGRAM
(000'S)

EXPENDITURES	1998	1999	2000	3 Year Total	2001 to 2007	10 Year Total
<u>Capital Expansion - Levy Programs</u>						
Red Hill Creek Expressway	\$13,334	\$59,871	\$44,118	\$117,323	\$32,160	\$149,483
Macassa Lodge	5,502	12,300	3,100	20,902	0	20,902
Waste Mgmt - Leachate Removal	9,314	4,190	6,461	19,965	0	19,965
Police - Mountain Station	0	11,000	0	11,000	0	11,000
Corporate Information Systems	2,330	2,330	0	4,660	0	4,660
Downtown Streetscaping	2,000	0	0	2,000	0	2,000
Storm Sewer - Pollution Control	0	347	838	1,185	12,672	13,857
Human Resources	905	0	0	905	0	905
Wentworth Lodge	0	0	0	0	14,698	14,698
Total	\$33,385	\$90,038	\$54,517	\$177,939	\$59,530	\$237,469
<u>Maintenance - Levy Programs</u>						
Roadways	\$22,448	\$16,903	\$13,286	\$52,637	\$104,601	\$157,238
Storm Sewers	12,717	6,618	9,765	29,100	70,924	100,024
H.S.R.	11,890	6,408	7,381	25,679	42,808	68,487
Waste Management	2,730	2,159	897	5,786	1,551	7,337
DARTS	459	1,092	1,114	2,666	8,449	11,115
Police	1,165	0	0	1,165	0	1,165
PaRCIL	825	0	0	825	0	825
Library	0	319	146	466	1,626	2,092
Industrial Land	51	47	64	161	2,367	2,528
Travel Forecasting	63	64	67	194	507	701
Development Charge Studies	140	0	0	140	474	614
Total	\$52,487	\$33,611	\$32,719	\$118,817	\$233,307	\$352,124
Total Levy Programs	\$85,872	\$123,649	\$87,236	\$296,757	\$292,837	\$589,594
<u>Capital Expansion - Rate Programs</u>						
Sanitary Sewers						
- Pollution Control Plan	\$0	\$3,123	\$7,538	\$10,661	\$114,050	\$124,710
<u>Maintenance - Rate Programs</u>						
Sanitary Sewers	\$30,660	\$17,399	\$14,419	\$62,478	\$196,181	\$258,659
Waterworks	24,801	15,631	12,691	53,123	135,275	188,398
Metered Water Financial System	210	158	158	525	315	840
Strategic Planning	236	0	0	236	0	236
Total	\$55,907	\$33,188	\$27,267	\$116,362	\$331,772	\$448,133
Total Rate Programs	\$55,907	\$36,311	\$34,805	\$127,022	\$445,821	\$572,843
TOTAL GROSS CAPITAL EXPENDITURE	\$141,779	\$159,959	\$122,040	\$423,779	\$738,658	\$1,162,437

NET CAPITAL FINANCING COSTS
(000'S)

	1997	1998	1999	2000	3 Year Total	2001- 2007	10 Year Total
Capital Expansion - Levy Programs							
Red Hill Creek Expressway	\$1,859	\$2,347	\$2,835	\$3,322	\$8,504	\$35,863	\$44,367
Storm Sewer - Pollution Control Plan	0	0	60	146	206	7,977	8,183
Police - Mountain Station	0	0	0	998	998	6,986	7,984
Waste Mgmt - Leachate Removal	0	200	1,237	1,804	3,242	18,744	21,986
GHTEC	566	566	566	566	1,698	2,011	3,709
Corporate Information Systems	0	0	223	496	719	1,760	2,478
Celebrate	203	0	0	0	0	0	0
Health	142	69	69	69	207	245	452
PaRCIL	0	0	37	37	73	199	273
Human Resources	0	0	55	55	110	164	274
Downtown Streetscaping	0	0	265	265	531	1,857	2,388
Macassa Lodge	862	866	866	866	2,598	4,806	7,404
Wentworth Lodge	360	359	359	359	1,076	4,899	5,975
Total	\$3,992	\$4,406	\$6,571	\$8,982	\$19,960	\$85,512	\$105,472
Maintenance - Levy Programs							
Roads	\$9,278	\$10,978	\$12,096	\$13,422	\$36,495	\$143,104	\$179,599
Storm Sewers	5,826	6,493	6,976	7,502	20,971	68,929	89,900
HSR	2,281	2,156	2,259	2,311	6,727	15,705	22,432
Police - Project Constable	1,723	1,549	1,519	1,214	4,282	2,964	7,246
McMaster University	564	537	537	0	1,074	0	1,074
Industrial Land	516	516	516	516	1,548	3,612	5,160
Waste Management	287	308	357	634	1,300	5,954	7,254
DARTS	352	384	420	507	1,311	4,950	6,261
Cdn. Warplane Heritage Museum	133	133	133	133	399	757	1,156
Library	0	17	17	92	125	1,528	1,654
Hamilton Beach Rescue Unit	0	6	6	7	19	198	217
Travel Forecasting	16	14	14	14	42	98	140
Total	\$20,976	\$23,091	\$24,851	\$26,351	\$74,293	\$247,799	\$322,093
Total - Levy Programs	\$24,968	\$27,498	\$31,423	\$35,333	\$94,253	\$333,312	\$427,565
Capital Expansion - Rate Programs							
Sanitary Sewers - Poll. Cntrl Plan	\$0	\$0	\$800	\$1,806	\$2,606	\$79,544	\$82,150
Maintenance - Rate Programs							
Sanitary Sewers	\$15,027	\$15,799	\$16,911	\$18,304	\$51,014	\$194,265	\$245,279
Waterworks	10,822	11,438	13,146	14,911	39,495	142,105	181,599
Total	\$25,849	\$27,237	\$30,056	\$33,215	\$90,508	\$336,370	\$426,879
Total - Rate Programs	\$25,849	\$27,237	\$30,856	\$35,021	\$93,114	\$415,914	\$509,028
TOTAL NET CAPITAL FINANCING COSTS	\$50,818	\$54,735	\$62,279	\$70,354	\$187,368	\$749,226	\$936,593



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